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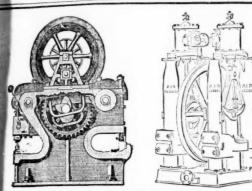
FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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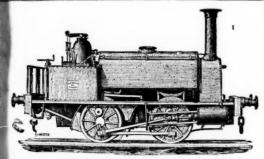


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BICKFORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL; ADELPHI BANK CHAMBERS, SOUTH JOHN-STREET, LIVER-POOL; and 85, GRACECHURCH-STREET, LONDON, E.C., MANUFACTURERS AND ORIGINAL PATENTEES of SAFETY-FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:—

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CREENER AND ELLIS' IMPROVED FETTLING FOR PUDLING FURNACES is now in active operation at the SKERNE RONWORKS, DARLINGTON, and LICENSES may be had for USING the PATENT on appleation to T. GREENER, STATION STREET, DARLINGTON. The improved yield and quality of iron produced, and the economy effected by the process, render its speedy universal adoption, in these times, a matter of necessity and certainty.—Darlington, January, 1874.





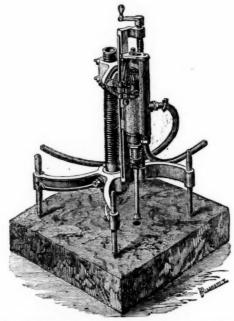


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More effective than condensing towers. Large chimneys can be done away with. Succeeds thoroughly in condensing

UTILISES ALL EMISSIONS. OF GREAT VALUE IN SMELTING WORKS.

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CORNISH PUMPING, WINDING, AND STAMPING ENGINES; STEAM
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Also of SPUR, MORTICE, MITRE, BEVIL, and other WHEELS, of any diameter up to 12 feet, made by Scott's Patent Moulding Machine, without the aid of patterns, and with an accuracy unattainable by any other means.

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SECONDHAND MINING MACHINERY, in good conditon, always on sale a

HUNTRISS AND SWINBURNE'S PATENT STEAM

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The system, from its extreme simplicity, non-liability to disarrangement, cheapness of construction, and thorough efficiency, renders it superior to all hitherto tried systems of obtaining cheap and good lights underground, and they invite attention to their apparatus, working daily at the principal collieries in Yorkshire, Derbyshire, Northumberland, South Staffordshire, &c.

For particulars, terms, &c., apply to—

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By a special method of preparation, this leather is made solid, perfectly close in texture, and impermeable to water; it has, therefore, all the qualifications essen-tial for pump buckets, and is the most durable material of which they can be made. It may be had of all dealers in leather, and of—

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THE ANTI-CONCUSSION DRILL.—This machine is specially adapted for driving levels, adits, or tunnels. It works without concussion, and therefore does not wear out. Has driven as much as 53 yards of drift in one month, where hand labour could only progress 8 yards in the same time. Forty-four of these machines are at work in a single colliery. Price £105.

THE EXCELSIOR.—This machine is the latest out; it is self-acting, self-feeding, self-stopping. It has fewer parts than any other drills, and its simplicity is remarkable. It is specially adapted for sinking and vertical work. Price £35.

THE QUARRIER.—Self-acting and self-feeding, very light and handy, suited for general work, and for quarry work, especially on account of its very small dimensions and lightness. Price £60 to £80.

THE HAND DRILL-Hand drill for soft material. Price £20 to £24. DRILLS of other systems are also in stock, and can be supplied, if desired.

Each of these Drills is a different Patent, constructed on a separate and distinct principle.



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AIR COMPRESSORS.

DRY SYSTEM,-Cheap and simple-six sizes.

WET SYSTEM.—This plan of compressing air is so perfect that the volume of the air compressed is equal to 96 per cent. of the volume of the cylinders. It is recommended whenever the work is of a permanent nature, or likely to be protracted. Driven by steam direct-nine sizes. By water power or straps-six sizes.

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SMALL BOILERS, for working Rock Drills, from 4 to 12-horse power

ANY LARGER SIZE TO ORDER.

PUMPS, STONE BREAKERS, WINDING ENGINES, &c.

Messrs. CHARLES BALL and Co., in consequence of their long experience in Rock Drilling, both in England and on the Continent, are prepared to advise professionally as to the best methods for driving and sinking according to nature of rock and local circumstances.

Should other ROCK DRILLS or MINING MACHINERY be successfully brought out by practical Engineers, Messrs. C. BALL and Co. are prepared, after having had the invention thoroughly tested, to enter into arrangements with the Inventors for the INTRODUCTION of such MACHINES in this Country and Abroad.

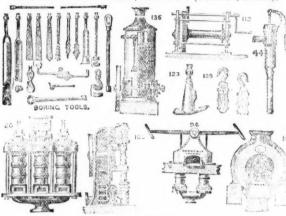
Progress obtained by CHARLES BALL and Co.'s DRILLS at the Collieries of Ronchamp: 8 yards per month. By Charles Ball and Co.'s Machines -53 yards per month, or 6^{1}_{2} times as fast.

OWENS AND CO.,

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MONTH TOOLS, for testing ground for Minerals. Bridge foundations, Artesian Wells, &c., to any depth.

No. 26.—Treble Barrel and other Deep Well Pumps.

No. 136.—Vertical and other Portable Steam Engines.

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No. 102.—Bernay's Patent Centrifugal Pumps, of all sizes.

ALSO EVERY OTHER DESCRIPTION OF

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HYDRAULIC AND GENERAL MACHINERY,

TURBINES, WATER WHEELS, WIND ENGINES, THE HYDRAULIC RAM, FIRE ENGINES, &c. Catalogues and Estimates on application.



This is the best hand-worked implement for colliery purposes extant. It can be carried about, set up, taken down, and worked by one man. It bores vertically upward as well as in any other direction. The rate of work is at least four times as great as by the usual methods. The hole made is straight and uniform, and, therefore, specially adapted for the use of cartridges.

Price list and description, with list of places where the Perforators are in use, on application as above.

A Special Type for Overground Work and

Shaft Sinking.

NERVOUS DEBILITY.—GRATIS, a MEDICAL WORK, showing sufferers how they may be cured without the aid of quacks. Free on receipt of postage-stamp.—Address, "Secretary," Institute of Anatomy, Birmingham.

PORTABLE,

Semi-Portable

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ENGINES.

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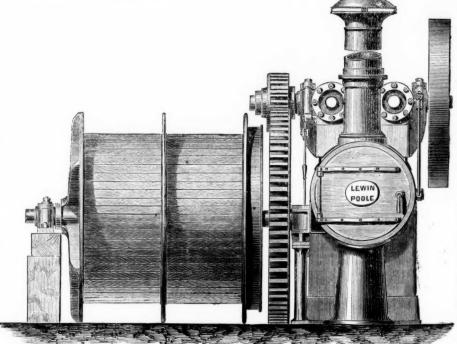
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Mortar Mills,

AND

Circular

Saw Benches.



WINDING AND PUMPING GEAR.

LEWIN, POOLE, DORSET.

DOULTON AND

PROGRESS MEDALS



EXHIBITION. VIENNA SPECIAL MEDAL

PLUMBAGO CRUCIBLES.

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MANUFACTURERS of IRON BUILDINGS of every description, including WORKMEN'S
COTTAGES, STORES, WAREHOUSES, WORKSHOPS, &c., &c.

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WORKMEN'S COTTAGES erected in blocks at very low prices.

WROUGHT IRON TANKS. I. D.'s IRON HOUSES and IRON ROOFS are ECONOMICAL, DURABLE, QUICKLY ERECTED, and REMOVABLE WITHOUT INJURY.

DRAWINGS AND ESTIMATES ON A PLICATION



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Original Correspondence.

TIN IN PORTUGAL.

REPORT ON THE TIN MINES OF SAO MARTINHO AND MONTESINHOS,

IN THE PROVINCE OF FRAS OS MONTES.

IN THE PROVINCE OF FRAS OS MONTES.

SIR,—These rich deposits of first-class tin ore are situate in two Portuguese frontier villages—one, Sao Martinho, five miles distant from the Spanish custom-house town of Alcanices, in the province of Zamora, and about 31 miles south-west from the city of Braganza; the other, Montesinhos, is about 44 miles from the from the former, 12½ from Braganza, adjoining the Spanish frontier custom-house town of Calator, and not far from the military post of La Puebla de Senabria. The San Martinho property comprises 3494 acres, and occupies the whole valley within the village of the Angueira river, and is composed of the following concessions:—

1. An absolute concession, called the Codeço or Codeso, containing 321 acres, and is composed of the following concessions:—

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1. An absolute concession (alled the Codeço or Codeso, containing 321 acres, and is composed of the following concessions:—

1. A provisional concession (alled the Codeço or Codeso, containing 321 acres, and acres,

Ditto ditto A provisional concessio Ditto ditto 1265 ,, 1404 ,, 3494 acres

The provisional concessions 3 and 4 are alluvium, and are situate on the banks of the Angueira. They are not expected to equal the others in value of ore, but being situated between them, and content them they are not provided to the state of the state others in value of ore, but being statated between them, the ter-solidating them into one entire and self-contained property, besides giving the service of the water, and keeping off inconvenient neigh-bours at a cheap rate, are considered desirable to be retained and converted into definitive concessions, all the necessary preliminaries

The total of the concessions, therefore, amounts to 1546 hectares, or The total of the concessions, therefore, amounts to 1346 nectares, or 3820 acres. All the mines have been chiefly worked upon the lodes cropping up to the surface, by means of trenches or gutters from 1 to 13 yards deep. There are, besides, on the Codeso and Raposo eight shafts each; those of the Codeso amounting to a total of 127 fms., with an average depth of 17 fms., one being a winze of 9 fms., the greatest depth, including the winze, being, therefore, about 27 fms. The total length of levels is 232½ fms. On the area that has been worked of 550 by 765 yards at least 40 clearly defined lodes have been met with, divisible into three groups, the centre of 20, the north and south of 12 and 8 each, the lodes being from 2½ to 4 yards apart, and so the strain strain of the property species of 33. and south of 12 and 8 each, the lodes being from $2\frac{1}{2}$ to 4 yards apart, and each group separated from the adjoining ones by spaces of 33 and 44 yards barren in lodes. The inclination of the lodes is vertical, or nearly so, consisting of quartz, more or less compact and clearable, containing the ore in crystals more or less agglomerated. The "country" is mica schist, with occasional bands of very hard compact schist. The cost at the levels and shafts has been about 20s, the metre (or 40 inches) run on a face of about 3 square metres. The shafts on the Raposo reach a total of 55 fms., one of which is a winze of 9 fms., the greatest depth, including the winze, being about 17 fms. The total length of drifts and levels is about 343 fms., of which three called respectively the Conde of 794 fms., the Enrique 93 fms., and the Erneste 53 fms. (together 226 fms.), crossing 48 lodes, are continuous, and commencing at the surface on one side of

lodes, are continuous, and commencing at the surface on one side of a hill conclude at the surface on another portion of it. The lodes are from 1 to $5\frac{1}{2}$ fathoms apart, and vertical, or almost so. The "country" here is variable, from friable and decomposed schist, requiring timber (which is cheap), to very hard compact schist, occasioning the lodes to vary in direction. The average of underground work is here estimated to cost from 14s, 6d, to 16s, the metre run, with timber 4s, the metre run every. with timber 4s, the metre run extra. The contents of the lodes on these two are stated to be from 43 to 85 lbs, of ore to the square yard of lode. For these concessions, doubtless, the machinery and intel-

ligence employed in well-appointed works would largely develope their productiveness. The Montesinhos Mines were not, from press of time, visited by me. They appear from the papers before me, which I have no reason to doubt, to be susceptible of a more economical working than the others. The lodes observed are about 80, many of them stanniferous. others. The lodes observed are about 80, many of them stanniferous. They lie more contiguous to the granite than the Martinho Mines. The "country" is transition schist, the gangue, or substance of the lode, quartz, often accompanied with mica. The inclination of the lodes is generally between 60° to 70° S.W. Lodes are, however, met with in the hornblende schist, inclining N.W., containing very little quartz. There is an adit level of about 55 fms., with cuttings, several vertical and inclined shafts for examining and following the lodes, some of which form an upper level. The lodes are stated to produce from 55 to 74 lbs. the square yard. The cost of the works underground have been about 24s. the metre (or 40 inches) run. It is said that a shaft of 77 fms, would enable an adit level to reach the centre of the concession at 655 fms, distance. Thus recourse to machines

would be willing to take a substantial share, or they would sell their interest in it absolutely, as may be preferred. Santander, March 8.

MINING IN QUEENSLAND.

SIR,-Since my last an extraordinary change has taken place in our mining matters. Tin and copper mining is becoming neglected, and gold is again in the ascendant. During the month of December the stream tin received at the Warwick Railway Station was 479 the stream tin received at the Warwick Railway Station was 479 tons 2 cwts. 0 qr. 13 lbs., a considerable decline on the previous month's receipts. Heavy rain fell during the last week in December and since, causing floods, and much damage has accrued; the consequence is that all works on the tin fields are stopped, and only 60 tons of tin ore were received at the Warwick Terminus during the first two weeks in this month, connection by the road to Grafton and Sydney being completely stopped. About 200 of the tin miners have left for the newly-discovered Palmer gold fields, and several hundred will follow during the present month, a few Chinamen taking their place. About 5000 acres of leased tin land has been declared forfeited by the Government, and as much more has been abandoned by the lessees as too poor to work. A considerable falling off in the production of stream tin may, therefore, be safely calculated upon for some months at least. The past year's production I give below.

In copper mining there is very little doing; most of the mines

In copper mining there is very little doing; most of the mines have "knocked," owing to mismanagement, and for want of capital. The "company" mining mania has died out, and now no one in Queensland will invest in a "company's" scrip, no matter the prospect. In gold the Palmer is the rage, diggers from all quarters are flocking to "Cook's Town," Endeavour River, so as to be ready to start for the Palmer immediately the rainy segan is over, and the In gold the Palmer is the rage, diggers from all quarters are flocking to "Cook's Town," Endeavour River, so as to be ready to start for the Palmer immediately the rainy season is over, and the country fit to travel on: this, it is expected, will be about the third week in March, and by that time there will be an accumulation of at least 10,000 diggers at Cook's Town. The accounts already received from returned diggers and official sources are most encouraging, and the general feeling here is that we have discovered a second "Ballarat" of greater extent. As yet the country is not, prospected, but the Palmer bed has been proved payable for 45 miles of its course. The 16,000 ozs, of gold brought down is very pure, nuggety, and well water-worn. As is usual in such cases, most of our gold fields are getting deserted, many of the working men are leaving Gympie for the North, although the prospects of that field never were better. As an instance, the half-yearly report and balance-sheet of the Glennure and Monkland Company states that the proceeds of gold from crushings for the past half-year was 11,179%. 8s. 11d.; wages and all expenses, 3836%. 0s. 11d.; dividends paid, 6000%, cash in hand, 582%; dividend equal to 15 per cent, per annum on the 8000% nominal capital of the company. Since this company commenced operations in November, 1872, there has been 1931 tons quartz raised, yielding 9746 ozs. gold, value 34,527%, of this amount 26,000% has been paid in dividends, amounting to 6s. 7½d. in 14 months. The works are 2½ years in advance with its dead work—i.e., it will take 2½ years to work out the quartz to the depth and width at present prospected. I only mention this as one instance of a payable Queensland gold company.

QUEENSLAND—EXPORTS OF TIN FOR 1873.

QUEENSLAND-EXPORTS OF TIN FOR 1873.

STREAM TIN.

1873.	Destination.	Weight-Total.	Value—Total,	Average value per cwt f.o.b.
1st quarter	N. S. Wales, Sydney*	18,042	71,912	zo. 01
2nd quarter	Great Britain, London N. S. Wales, Sydnev*	6,269 = 24,311 $16,218$	23,656 = 95,577 $61,434$	78s. 3d
•	Great Britain, London	2,306 = 18,524	8,577 = 73,011	79s. Sd.
3rd quarter	N. S. Wales, Sydney* Victoria, Melbourne	13,144	47,938 1,680	
	Great Britain, London	$11,075 \Rightarrow 24,939$	41,522 91,140	73s. 1d.
4th quarter	N. S. Wales, Sydney* Great Britain, London	9,091 = 30,494	77,515 33,469 =110,984	72s. 9d.
Total	ore	98,268	370,712	

	I	NGOTS.			
1st quarter	N. S. Wales, Sydney* Great Britain, London	244	315	1.410 ==	1,555
2nd quarter	N. S. Wales, Sydney*	9		55	
3rd quarter	Great Britain, London N. S. Wales, Sydney*	608 ===	617	3,194 ==	3,249
	Great Britain, London	1,568 ==	1,589	8,878	9,010
4th quarter	N. S. Wales, Sydney Great Britain, London	2,094	2,094	12,320 -	12,320
Total	ingots		4,614		26,134
Total	value				96,846

* These quantities will appear again in New South Wales exports

These quantities will appear again in New South Wates exports.

Total tin ore 98,268 cwt., at an average of (say) 60 = 58,960 cwt. pure tin, which, together with the 4614 cwt. ingots exported = 63,574 cwt., or 3178 tons 14 cwt., exported during 1873. A quantity far below all the estimates heretofore made. I have not been able to get the New South Wales exports of tin for the year, but hope to be able to procure them by next mail. We can then see the gross export of tin from Australia for the year, which I am certain will not exceed 4000 tons pure tin. I have given each quarter's returns exparately, so that your readers can see the actual increase

the first contact with the new stratum is favourable. The ores are sold at Salt Lake City, so there is no difficulty in getting at the actual production, or getting information on that point.

II. NASMYTH.

THE EMMA MINE.

sin,—The circular published by the directors of the Emma Mine is as much to be depended on as the wonderful reports and gigantic amount of reserves with which this mine was paraded into the London market. What dependence, then, I ask, can be placed in them when they run into the other extreme? The Chairman came out here, after the first collapse, and reported likewise great reserves—\$4,000,000 in sight. What dependence can also be placed in him? I am as liberal as anyone, having never accused any of these contleves of SIR,-The circular published by the directors of the Emma Mine is

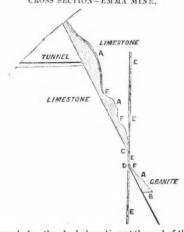
serves—\$4,000,000 in sight. What dependence can also be placed in him? I am as liberal as anyone, having never accused any of these gentlemen at any time of wilful deception. I do not do so either on the present occasion; but I do state, from positive facts, that they are either as ill-advised on the present state of the mine as formerly, or they are withholding most valuable information.

If the mine promises so little as the Chairman himself believes, or is made to believe, why is nobody admitted, no exception made, not even to any shareholders here resident (nearly 300 shares are held in this city)? Why not allow himself to be assisted in concecting his gloomy circulars by the admittance into the mine of those interested here? To say the least, this would have been a feather in his cap. Why has not the Chairman entered more fully into exinterested here? To say the least, this would have been a feather in his cap. Why has not the Chairman entered more fully into explanations of the causes of his gloomy circular? Why does he avoid giving information which every shareholder has a right to demand? Why has he not made public the sales made in Salt Lake City, which now average about 700 tons, at from \$1000 to \$145 per ton? which now average about 700 tons, at from \$1000 to \$145 per ton? Why has he not given a statement of the reserves amounting to 3400 tons? Why has he not given a diagram to show the temporary cause of the ore disappearing suddenly again as on the first occasions, and then discovered again within 30 ft., which caused the present discovery, which was made in November, 1873? Is it not the duty of a board to make public a discovery of ore, however small? Have they at any time given any of this information? The public here is as well informed of the present satisfactory state of the mine as it was when it objected to believe in the \$4,000,000 reserves, which were then trumpeted about by the board.

\$4,000,000 reserves, which were then trumpeted about by the board, in proportion as they are now cried down. The causes of the temporary and sudden disappearance of the ore are simply faults that are met with in all rich mines.

I will here give you a small diagram which will illustrate the real state of matters:—

CROSS SECTION-EMMA MINE.



A, A, A, Emma lode; the shaded portion at the end of the "Tunnel" is the great body of ore above the adit; c, is the first fault met with, cutting off the ore completely; E, perpendicular fault, 30 ft. high; D to B, vein discovered again below the first fault in November, 1873, from which the rich ore sold lately was produced.

The length of ore, horizontally speaking, between the two faults is 110 ft.; the length on the incline, 138 ft.; and the average width about 3 ft. (the ore varies in width from 14 ft. to an inch or two). Allowing as much as 14 cubic feet to the ton, we have 3400 tons

Allowing as much as 14 cubic feet to the ton, we have 3400 tons more or less as reserves. This calculation was made on reliable data by one of our most practical mining engineers, and formerly super-

intendent of the mine during two years.

The weekly remittance of the ore during the worst time of the year is the best proof that the mine has these reserves, and will continue to produce ore for several months, at any rate until the new fault has been gone through. Three of these faults have already been gone through in the Flagstaff Mine, and fresh bodies of ore discovered each time, but with the difference that the ore in the Emma

Tall vines — 1995.

The sympath of the following and preferred. The following ratio of professions of which form a spept event, the following ratio of professions of the following and preferred. The following ratio of the followi

man and family no better. It was a mistake of the masters in not raising their wages, and keeping them at work full time as before. It is now very doubtful that they will be got to work as formerly. Then the coalowners will have to pay a deal more to get the same quantity of coal, and for every extra shilling they have to pay the men the public will be charged 10s.

Then comes another serious point I may call your attention to. Everyone who has money at command is now aware of the large sums these coalowners have pocketed by the rise in the price of coals, and they think they can open up new coal mines, and do the same. This is not the case. Nearly all the collieries left unworked are doubtful speculations. Still they will be opened; thousands of men with money may be said to be "coal mad." Every coal field is now raked up, put into the market, and sold for fabulous prices—say, from 20,000t, to 60,000t,—by men who never saw coals but by burning them. It matters little to them if there is not I ton of coal in their grants if they can get someone to concoct a report and sell them. One came to me, not a week since, with his report "cut and deint". burning them. It matters little to them if there is not I ton of coal in their grants if they can get someone to concoct a report and sell them. One came to me, not a week since, with his report "cut and dried." He said he had it taken up in London. He only wanted one-fourth taken up, as it was a most splendid coal and ironstone field. I asked him where it was, and he told me. I said that coal was not found in that district; what rock was it in? He said the chalk. That I said was quite new to me, and let him go on. I have a friend who. I am sure never know awthing of coal texters or have chalk. That I said was quite new to me, and let him go on. I have a friend who, I am sure, never knew anything of coal layers, or how to mine them. He met with someone who had a coal grant, and agreed to share it with him. They started off together. About a week since they returned. He says he has sold it for 30,000%, has the agreement signed, and has received a portion of the money.

It is clear to me that hundreds of worthless coal grants will be sold and many of them onesed my still. I fear that few of them

It is clear to me that hundreds of worthless coal grants will be sold, and many of them opened up; still I fear that few of them will ever pay. They may raise a deal of coals. Then the question arises, will the public get coals at a lower price? I say not, as the collier is only employed half his time, and that is all he will be got to work in future. Then, thousands of the most skilled men will be taken from the present collieries to sink and open new ones, and the coalowner will have to pay a vast deal more for raising the the coalowner will have to pay a vast deal more for raising the same quantity of coals than he does at present. Then, who is to pay for this, the coalowner or the public? I fear it will fall upon the public. In that case it will drive the trade out of the English market, if we invest each it will appear to the same thing. We same quantity of coals than he does at present. Then, the host of pay for this, the coalowner or the public? I fear it will fall upon the public. In that case it will drive the trade out of the English market: if we import coals it will amount to the same thing. We cannot compete with any country that has good coals and pays low wages. Be this as it may, I caution all those about to open new coal mines to be on their guard, or they will lose their cash.

Devon Consols Copper Mine paid the shareholders 1,250,000%, but others in searching for a second such mine, spent over 2,000,000%.

others, in searching for a second such mine, spent over 2,000,000.

and got nothing. I fear this will be the case with some of the new coal finders.—St. Teath, Camelford, Cornwall.

N. ENNOR.

SILKSTONE FALL COLLIERY MEETING.

SIR,—I understand that the proxies many of my friends and myself gave to the Chairman for the meeting of the Silkstone Fall Colliery Company (Limited), at Barnsley on Friday last, were not used
in support of the election of Mr. Kimber, who was proposed by Mr.
Swindells, one of the oldest, wealthiest, and most respectable of the
proprietors. I am very much surprised at this, because Mr. Kimber
was on the committee of investigation, whose labours have had such
a successful result. However, he was fortunately elected without
the assistance of those proxies, and I trust now our property will
become still more valuable. It only shows, however, that in giving
proxies some more definite instructions should be given to the person
who holds them. I simply throw this out as a hint to all shareholders not to give proxies blindfold, just because a Chairman or
other official should ask for them.

A CITY MERCHANT.

THE CHONTALES CONSOLIDATED MINING COMPANY.

SIR,—The Chontales Consolidated Mining Company have now made regular profits for the last eight months, from 190l. to 750l. per month, with 24-stamp heads, under the able management of Mr. Smeddle, the manager at the mines; and they have erected additional twelve ones, which will increase the same from 1000l. to 1500l., according to the yield of gold per ton of ore. With such prospects as these it seems a wonder to me that shareholders who may hive watched the progress of the mine for some time past do not increase their holding, or that expitalists are not inclues to precure shares, which at the present advantageous price (M to 1) would no doubt pay a very good percentage on the sum invested in the course of a few months. I am happy to say that many of my friends have purchased argely in the mine, and anyone doing the same would do well. I may add that now is the favourable opportunity for investing therein, as we may expect forthwith the results or the 36 heads. To quote the words of our Lie manager, Mr. Bell, who was present at the half-yearly meeting of shareholders on Oct. 31, 1812, there are millions of tons of payable ore in the mines, and if it sextra stamphends were erected at the Pavon (where there is good water-power), making, with those in other parts of the property, 120 in al, a sufficient number of tons (12-0,000) could be reduced, to produce, at an average of 4 dwts. a ton, 24,000 ozs. of gold per annum, which, at 56s. an onnee, would realise the enormous return of 68,000c, being at 5s, 34, a ton, would pay a dividend to the shareholders approaching that of the eleberated 8t. John del Rey at the time of its former prosperty.

A SHAREHOLDER.

**MINERS PAY—THE THERTEEN-MONTHS SYSTEM* Sin, -The Chontales Consolidated Mining Company have now made

MINERS' PAY-THE THIRTEEN-MONTHS SYSTEM.

MINERS' PAY—THE THIRTEEN-MONTHS SYSTEM.

Str.,—"Readers of the 'Mining Journal," in the Supplement to last week's Journal, says, speaking of the 13 months, "We believe this absurd system will disappear, and believe it was instituted only for the convenience of packmen." I ask "Readers of the 'Mining Journal'" to define "absurd." Methinks I hear them say preposterous, unreasonable. I ask the Cornish miners the meaning of the word in this tase, and I hear the answer reverberating and re-echoing from Land's End to Thi tagel—It is the greatest blessing ever conferred on us; it has elevated us almost to equality with other labouring classe; it has, moreover, clothed our childrens' shoeless feet, it has crased our mames from the County Courts, &c. Now, to whom shall we award the palm of creduity? To that race of whom Prof. Sewell wrote only a few weeks since in your valuable Journal, "were unsurpassed, if not unequalled," or an equivalent; or to the "Readers of the 'Mining Journal?" who would leek the gates of progress, and again deluge the world with gross ignorance and superstition, and who look at everything with jaundiced glasses. "Convenience of packmen!" Every shareholder can refute that assertion, as packmen have no more interest or influence in our mine meetings than you "Readers" have. For the future, do not write on anything you are unacquainted with.

"Anditor' is "pleased" at the downfall of weak and falling humanity, "pleased" to be able to communicate that which is a source of distress, misery, poverty, and other concomitant and necessary evils; "pleased" to find my out that as a county when the was coloured, or there were misrepresentations in a public paper, it is in "Anditor's" letters. I state fearlessly that he cannot reckon three mines in the whole county where the men have returned to the old system without opposition, and in some mines the men prefer a holiday than work under the five weeks system. The rest of the letter will be treated as it deserves by every man of truth and honour by passing

ome more to damage mining investments than this 13-months system. What about inspectors' reports, committees and directors' salaries and privileges, as was ably shown by Mr. N. Ennor, in his letter on "Depressed Mining," in the Supplement to last week's Journal; useless and worthless machinery, unqualified and extravagant agents, and the exorbitant expenditure connected with our accounthouses. Again, "a miner does less work." Our agents are appointed to see that men work, and that men are paid only for the work accomplished. What will our agents say when told by "Unity" that they have not discharged their duty? A baseless assertion which could only go the achimera.

I ask through the medium of the Journal for arguments in favour of the fiveweeks system, as only one has been forthcoming, —namely, "the difficulty in balancing the accounts." To remedy this, if the purser or clerk should call in the services of some qualified parties who are generally to be found on the mine it would be done gratuitously, as very many of our miners can do mathematics. I hope the parties to whom I have replied will pardon me, but they know not one tithe of the misery entailed by the re introduction of the hated and detested five-weeks.—Comborne, March 24.

Thoox INSTITUTE.

MINERS' PAY-THE THIRTEEN-MONTHS SYSTEM.

MINERS' PAY—THE THIRTEEN-MONTHS SYSTEM.

BIR,—Wo are now to believe that whoever are true lovers of mining must needs be pleased at the very interesting endeavours which are made towards the restoration of the five-weeks pays, and by which mining is to be raised from the languisting condition it is now in. But is it not odd that with all that these great pillars of mining have had to say on the subject they have neither brought forth facts or figures to show wherein the four-weeks system fails to act. Certainly they have been looking high and low, right and left, and in every other direction for some new order of excitement to be set going, and upon which they might build their premises—not, it is to be hoped, that they are bad enough to wish the condition of the miner to be less favourable for his picking his way through life than other men of a like class. But this much we may say emphatically, that there is every reason to believe that they cannot know much of the inconvenience of long pays to the working class, and as none can know better what belongs to such a life, we can state the result of our experience to be that wages, even the smallest, went further when received at auch intervals as to enable us to buy with ready money. Just to show what we mean, we will suppose the twelve-months system restored, and the pays on the last Baturday in each month; these are between 1914 25 next and Oct. 31 (fourteen weeks). Bay, now, that a set of good tributers have been vainly trying their luck up to the first of the above dates; they then wish to try a

spell of tutwork, so as to recover themselves a little. But, oh! what a prospect, with nine weeks before getting a farthing, and another five weeks close at their heels. And was this all it would be but enough, but not having any wish to overcolour the thing, let us hope that this hint may suffice to convince those who appear so anxious about this affair that they are now trying that on which will have a tendency to deprive mining of many of its best workmen.

A READER.

North Wales, March 25.

EAST SETON.

Sir,—It is a pity that this promising mine is not worked with more spirit. A decisive trial would be to drive the 80 from Emily Henrietta to come in 10 fms. below Cartwright's shift. The water from Seton was damined out last year, and the North Roskenr will probably find its way north-west to the Seton's and south-east to the Crofty's. Little is being done now but taking away the ore discovered last year, of which there must be at least 400 tons, perhaps more. Let us hope the mine will be worked at once with greater spirit.

Shareholder.

[For remainder of Original Correspondence, see to-day's Journal.]

SETTING TO WORK AN ENGINE AT MORVAH CONSOLS.

"Setting to work an engine, in such times as these!" exclaim some of the wearied or fainthearted ones who have seen mining droop and languish within the last few months. Shareholders in mines which have ceased to yield them the income on which they had reckoned as surely as if it was derived from lands or consols; or, worse, having withdrawn from them some of their resources, have become claimants

on attenuated purses, may reasonably ejaculate thus. They see of the (and expensive) mines death-stricken by the fierce Australian competition. They hear of the heart should be properly and to abundon the less productive parts of the venture, and preparing to abundon the less productive parts of the venture, and that a ponic prevails; that adventures in mines, no more preof against miresonal parts of the venture of the property active the pro

The Vice Chairman (Mr. Evans) proposed the health of Mr. Hammon, and referred in the kindest terms to his knowledge of mining, his straightforward conduct in connection with this enterprise, and to the confidence he so completely possessed of the whole of the shareholders. Having known Mr. Hammon for 29 years, having also seen to-day what he had for himself, he (Mr. Evans) wondered that capitalists did not invest in home mines which they could occasionally visit and inspect, rather than in foreign ones where everything must be left to others. There were not many shareholders in Morvah Consols, but money had been, and would be, invested in it because there was so much confidence in the integrity of the gentleman whose health he now proposed. (Applause.) There was only one drawback to the pleasant proceedings of the day—that Col. Holland, the Chairman of the directors, was unable to be present. Had he been here he much have been pleased with the work already done and with the prospects of the mine. So satisfied was he (Mr. Evans) that he had resolved not to sell a share—indeed he had recently purchased several from a dissentient shareholder for within a few shillings of what he had paid for them; and was also determined to frequently have the pleasure of meeting them again. (Applause.)

The Chairman's good health was drank with hearty cheering.

In his response Mr. Hammon said that in Penzance and west of it the right hand of fellowship had always been extended. He had endeavoured to reciprocate this, and so he found nothing but smiling faces around him. (Applause.) He trusted to enjoy the friendship and the good wishes of all for many years.

The toast of the health of Messys. Eastice and Son was enthusiastically received—the CHAIRMAN observing that Mr. Eustice was an old friend of his, while the name of the firm and its repute spoke for themselves, and both father and son were good practical engineers. (Applause.)

Mr. EUSTICE said that he remembered io or 50 years ago a company being formed to work this sett;

THE PRACTICAL ASSAYER.

That many persons not possessing the advantage of an acquaintance with chemical science would often find it of great utility to themselves to be enabled to make a reliable assay of a piece of on when in out-of-the-way places, in which it is altogether impractioable to obtain the assistance of a professional assayer, cannot for a moment be doubted, and it is especially to meet these cases that "Oliver North" has written his admirable little volume* upon practical seaving. His phicot can be other in to give a consistent of the control of the c

when in out-of-the-way places, in which it is altogether impracticable to obtain the assistance of a professional assayer, cannot for a moment be doubted, and it is especially to meet these cases that "Oliver North" has written his admirable little volume* upon practical assaying. His object, as he states, is to give a concise and clear account of the best and quickest way of assaying, and he seems to have comp etchy attained it. He remarks that most works on the subject mix up the province of the analytical chemistry persuppose, as a primary condition, that the operator should be a clemist, whereas assaying is a mere mechanical art, depending about a run inferior to a good assayer in estimating the exact what of an ore. The truthfulness of these remarks are beyond question, and it might also be mentioned that the most complicated astronomical calculations required at the Royal Observatory are found to be more rapidly and accurately performed by young men fresh from a country school than by astronores of long experience, and that in most branches of science the deepest and most systematic thinkers—in development—are frequently but second-class manipulators. With a knowledge of these facts it is not surprising that "Oliver North" should state that some of the very best and quickest assayers he ever knew have been Chileno and Mexica youths, who could hardly write their own names, and yet their manipulation and knowledge of mixtures was, from constant practice, perfect.

Some mental is considered by itself, and the statement of the method of manipulation is in each case given in language which will be readily intelligible to all. For the assay of copper he chooses the Chilian precipitation process, which, he remains its undoubtedly most suited to the requirements of the general practical assayer, alies to be suited to the requirements of the general practical assayer, alies and one suited to the season of the process. It is not such that the test are supported on the rim of the brazier. Two halves of a brick, and

"The Practical Assayer, containing Easy Methods for the Assay of the Principal Metals and Alloys." By OLIVER NORTH. London: Chatto and Windus.

VENTILATING MINES.—We witnessed this week the working of a newly-invented machine for the ventilation and cooling of hot and deep mine. It is the invention of Capt. W. Williams, M.E., of San Francisco, and is worthy of motice by the mining community. It can be placed at any required depth in a mine, and the same time receive its supply of fresh air from the surface. Its principal feature is that the air is cooled by passing through the machine, Iterahing fresh moist air instead of dry as is the case with most machines of this kind. No grease or oil is used about the machine, then preserving the air in its particular without going into details of construction, it may be stated that the machine is minply an elongated box, inside of which a large piston works, taking in an diordig out air at both its up and down stroke. The bottom of the box is filled with water, and the air on entering circulates about the water, and is moved down out it in such a way as to eool the air before it passes out into the mine. The power required to run the machine is very little, and the mechanism is simple. The box is of woof, as is the piston, and no lubrication is required. The smallest machine with a 6th stroke will deliver 3,732,480 cubic inches of cool condensed air into the interior of the mine in one minute. In consequence of the machine swimming in water, as small amount of power will work it. The inventor is a practical mining enginer, and understands the injury to health and strength of miners resulting from bot and impure air, as well as the great economy of thorough ventilation in mines. A single-acting machine of this character has been long used in the mines in England. Mr. Williams's improvement makes it double-acting. The whole machine is migrated in the mines in England. Mr. Williams's improvement makes it double-acting. The whole machine is neglection of the piston-rod. The valves are made of leasher and very economically. One of these machines can be seen in operation at No.4 Mr. Brute in order to the lawn with the VENTILATING MINES.—We witnessed this week the working of

hey)

M. Krupp, of Essen, has bought the large iron mines near Bilbos, spain, in order to use the iron which is found there for the production of armour aires, for which purpose the iron found in Germany is not adapted, so that hither large iron beginning the beginning to the bilboss are the confidence.

Meetings of Bublic Companies.

THE SILKSTONE FALL COLLIERY COMPANY (LIMITED).

EXTRAORDINARY REVELATIONS.

The fourth half-yearly meeting of shareholders was held on Friday last at the King's Head Hotel, Barnsley. There was a large attendance, and the proceedings were most exciting, serious charges having been brought against the late managing director, and another director, and another director was also the salesman. been brought against the late managing director, and another director, who was also the salesman.

The report having been read by the secretary, the Chairman (Mr.

tor, who was also the salesman.

The report having been read by the secretary, the Chairman (Mr. J. W. Baker) said the report would be far from satisfactory to the shareholders, as there would be no dividend declared for the past half-year. When he accepted office, some six or seven months ago, he determined to riddle the whole concern from top to bottom, and make the shareholders fully acquainted with the actual condition of their property. He had received proses representing 3000-shares, and some of the letters accompanying them celved proses representing 3000-shares, and some of the late directors. One of the denounced in strong terms the conduct of some of the late directors. One of the writers would exuse an investigation to be made as to their true position. Dunles would exuse an investigation to be made as to their true position.

Mr. Poole was about to address the meeting, when he was interrupted by Mr. B. Coopers, who said that he had only one share in the company; that was given him, so that he could speak in support of the old directors.

Mr. Kiner (solicitor, London) said there was no use in cryping over spilt milk, Mr. Kiner (solicitor, London) said there was no use in cryping over spilt milk, and he, as well as the other shareholder, would not desire to receive a dividend if it and he, as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, would not desire to receive a dividend if it and he as well as the other shareholder, and the meeting was a fet that when Mr. Owen proposed to him that he might as well as the

without acted 170 of them at a considerable premium? He would also ask him he did not sell 170 of them at a considerable premium? He would also ask him he did not sell 180 and he company had not paid 186, for a pass for him to travel to Sheffield whether the company had not paid 186. The pass for him to travel to Sheffield whether the company as an official terminated?

Mr. Nicholson said he would tell them all about the allegations in the report, which he certainly characterised in strong language, for if the report was correct which he certainly characterised in strong language, for if the report was correct which he certainly characterised in strong language, for if the report was correct the would stand disgraced in the eyes of all honest men, as well as in his own. He may have made some mistakes, but he had done his duty to the company, and done may have made some mistakes, but he had done his duty to the company, and done may have made to the sales of the first half-year of 1873 that it he had that \$24.12a.9d. might be considered their actual value at the time named. Just read that \$24.12a.9d. might be considered their actual value at the time named. I have did not said the sales at the time had not proved the sales at the sales of the hast quarter were 10.1884. 4s. 8d., against 69054, 8s. 10d. for the same quarter of the previous year. With that large sum there was no profit.

The CHAIRMAY is our losses. — Mr. Nicholson then went on to say that he received 599 fully-paid shares for his services in promoting the company, and which he considered he had fairly carned. He acted as the agent of Mr. Booth, who was one of the partners in the Silkstone Fall Colliery, formed the company, and which he considered he had fairly carned. He acted as the agent of Mr. Booth, who was one of the partners in the Silkstone Fall Colliery, formed the company, and which he considered he had fairly carned. He acted as the agent of Mr. Booth, who was one of the partners in the Silkstone Fall Colliery, formed the company, and whi

contracts, as compared with the collery, whilst he obtained 2s. per ton more from the Sheffield Gas Company than the contract price.

The Chairman remarked that contracts had been entered into at 12s. per ton for coal which at the time was selling at 20s., so that there was a loss of 8s. per ton.

Mr. L. Comper said there had been two dividends paid—one of 25 per cent.—that ought not to have been paid, for they had not been earned.

Mr. Whitehean said that in the last week of June he met Mr. Nicholson at the colliery, who told him in confidence that there had been a loss in the working of the colliery during the previous month. Now, as there had been a loss on the wagon works and a loss on the colliery, he should like to know how it was the old directors declared a dividend of 25 per cent. In February last?

The Chairman said that Mr. Owen, the late chairman, received 60 fully paid-up shares in the company, whilst several had also been given to another director, Mr. Neville.—Mr. Neville.—Mr. Neville.—Mr. Neville.—The Chairman said there was also a preference with regard to other 20 shares.

The Chairman said there was also a preference with regard to other 20 shares.

ther 20 shares.

Mr. Coopen remarked that the 40 shares were given to qualify Mr. Neville to

Mr. Cooper remarked that the 40 shares were given to quality Mr. Nevine to become a director.

After a desultory discussion with regard to the price obtained for the coal, some of the shareholders alleging that Mr. Neville got a considerable quantity of coal for the colliery at a less cost than was paid by other customers, Mr. Cooper moved the adoption of the report, which was seconded by Mr. Robinson, and unanimously agreed to.

On the motion of the Chairman, seconded by Mr. Cooper, it was agreed that the board of directors should consist of five qualified shareholders.

The Chairman then proposed that the office of managing director, hitherto held by Mr. Booth, should be abolished.

The motion was seconded by Mr. Harwood, and agreed to.

The Ghairman then moved, and Mr. Harwood seconded, a resolution to the effect that Mr. Booth and Mr. Neville be removed from the board of directors, which was agreed to.

The CHARMAN then moved, and Mr. Harwoop seconded, a resolution to the effect that Mr. Booth and Mr. Neville be removed from the board of directors, which was agreed to.

The CHARMAN said the shareholders had now to elect two directors in the place of Mr. Culpin and Mr. Tattersfield, who retire according to the Articles of the company. Mr. Culpin offered himself for re-election. Mr. Culpin was accordingly re-lected. Mr. Kimber, of London, Mr. Smith, and Mr. Harwood were proposed for the other directorship. No decision, however, was come to in consequence of Mr. Kimber handing in some proxies su hicient to secure his election, but the legality of which was questioned. The question was left to the decision of the London legal adviser of the company. The meeting was then made special.

The CHARMAN called attention to the opinion given by Mr. W. Nicholson, barrister-at-law, the first chairman of the company, who stated that he left the board chiefly upon the ground that he considered Mr. Booth—the vendor of the colliery in the first instance—had improperly obtained his 2400 fully paid-up shares in the company. In the original prospectus it was stated that the managing partner (Mr. Booth) would take his interest. 12,000V., in shares; but if he was not a partner he had no interest to sell. This appeared to be the case, for the coal leases were made from Mr. Stanlope, the lessor, to Messrs. Adsheads, who appeared to have been the owners of the colliery. In the second prospectus Mr. Booth was stated to be the vendor merely. The Chairman then proceeded to say he had received a letter from Mr. Booth's solicitor, which stated that in the report there were statements seriously reflecting on the character of his cilent, who was prepared to give satisfactory answers to all the charges preferred against him; and unless those statements seriously reflecting on the character of his cilent, who was prepared to give satisfactory answers to all the charges preferred against him; and unless those statements seriously reflecting on t

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ask Mr. Booth whether he had a duplicate of the leases from Mr. Stanhope to the Adsheads.—Mr. Booth said he had not.

Mr. Kimber asid the company had not the most remote chance of receiving the 2400 shares.

The Chairman stated that it would be for the solicitors of the company to say what should be done. He had to propose that the directors be empowered to take counsel's opinion with regard to the receiving of the 2400 shares from Mr. Booth, Mr. Culpin school the resolution of the counsel's opinion with regard to the receiving of the 2400 shares from Mr. Booth, Mr. Culpin school the resolution. They were going, he said, to take the opinion of Messrs. Lewis and Lewis, the criminal solicitors, of London, to support that of Mr. Nicholson, who was a common law barrister. None of those gentlemen he considered were capable of giving an opinion of any value in such a matter.

The resolution was then put and carried nem dis.

The Chairman stated that their late salesman, Mr. T. Nicholson, had issued a writ against the company for 871. 3a, 3d., but as he found that Mr. Nicholson which had only action that might be brought against the company for the sum named. Also that, in the event of Mr. Nicholson not proceeding with his action, the directors be authorised to go on with their action against him for the receiving of the sum named.—The resolution was seconded and carried.

The Chairman said that the sum of 216d. 18s. 3d. was put down in the first half-year's balance-sheet of last year as commission due to Mr. Nicholson, to which neither he nor the managing director were entitled. He, therefore, proposed that the sum named should be required to be re-paid to the company.

The Chairman said that the sum of 216d. 18s. 3d. was put down in the first half-year's balance-sheet of last year as commission due to Mr. Nicholson, to which neither he nor the managing director were entitled. He, therefore, proposed that the sum named should be given to the conjunction of the conjunction of the sum named should be given to the conju

late salesman.—Eventually it was agreed that the issue should be left entirely in the hands of the directors.

late salesman.—Eventually it was agreed that the issue should be left entirely in the hands of the directors.

Mr. CULPIN proposed a vote of thanks to the Chairman, who, he said, had saved their property from utter annihilation.

Mr. L. COOPER, in seconding the resolution, said the Chairman had done an immense amount of work, and he hoped the report of their proceedings would have the effect of showing the public how some limited companies were got up. The history of their own concern was cheatery from beginning to end. They were told in the prospectus that the colliery was getting the well-known Silkstone coal, which was not the case, and he believed that the deception practised upon them would bring the parties under the criminal law.—Mr. R. Cooper, in endorsing what had been said with regard to the services rendered by the Chairman, said he was sorry Mr. Nicholson had left the room, as he wished to correct the statements he had made, which were a tissue of falsehoods.

The CHAIRMAN, in returning thanks, said he had sifted the affairs of the company so as to bring before the shareholders a true statement of their position. He could assure them that he would not hold the office of Chairman a moment longer than he had the confidence of the shareholders.

The proceedings then terminated, having occupied more than five hours.

SPANISH HEMATITE IRON COMPANY (LIMITED).

The ordinary general meeting of shareholders was held at the offices of the company, Cannon-street, on Tuesday,
Mr. M. J. POWER in the chair.

Mr. WOODBINE CLOETE (the secretary) read the notice convening

SPANISH HEMATTE IRON COMPANY (LIMITED).

The ordinary general meeting of shareholders was held at the offices of the company. Camous retroet, on Tuesday, "Mr. M., J. Powers in the chair."

Mr. WOODINE CLOETE (the secretary) read the notice convening the meeting."

The report of the directors stated that since the date of the last report they have succeeded no dothing all the necessary facilities for acquiring the land for the succeeded not obtaining a the necessary facilities for acquiring the land for the state of the several lots, so far as the funds at the command of the board admitted of that proceeding. The proprieters must be all aware of the continued disturbed to that proceeding. The proprieters must be all aware of the continued disturbed that the lands are stated to the land allower market, and the other party paralysis of the labour market at the paralysis of the labour market and the chromidic entires indicated in Capt. Tregry's and Mr. Hikington's reports, will account for specify the processary of the company since the last querest to be fully warranted by the intrinsic value of the company's property in Spain. The report of the mining capturation by the directors, and which they believe to be fully warranted by the intrinsic value of the company's property in Spain. The report of the mining capturing (Capt. L. Tregry)—San Migari Immediately related to the intrinsic value of the company's property in Spain. The report of the mining capturing (Capt. L. Tregry)—San Migari Immediately ridge, and head of the valley, the three principal points of the mine. But, owing to the unlarge paralytic capture of the mine was the capture of the mine was the capture of the mine was the capture of the mine was provided to the capture of the mine was the capture of the capture of the mine was the capture of the capture of t

able to obtain further information. In October last the final valuations were made, enabling us to proceed upon our compulsory powers for entering upon the lands required for our railway, and it now only remains for us to take possession of the remaining portions of such land, accordingly as the construction of the railway progresses, and as our funds admit. For that purpose it will be necessary to call up the unpaid portion of the subscribed capital of the company the unpaid portion of the subscribed capital of the company—30s. per share; but this the directors propose to have spread over three months, and payable in two moieties; of the precise amounts and dates when payable due notice shall be given to the proprietors. The difficulty of procuring a supply of labour since the outbreak of civil disturbances in Spain, unfortunately, continues to the present time, but this company has been exempt from the violent interference with its operations that some British neighbouring undertakings of the same kind have felt, to their great loss. Since they last met the proprietors in this room the directors have secured an important addition to the company's mineral property, in the Three Crowns Mountains, upon terms peculiarly favourable to the company. Of the character of this property the directors have every reason to accept, with the utmost confidence, the report of it furnished by Capt. Tregay. I have myself visited these mines, and the evidences of reaccept, with the utmost confidence, the report of it furnished by Capt. Tregay. I have myself visited these mines, and the evidences of ore that I found on all sides fully confirm, to my mind, the value of this acquisition. In the statement of accounts we give the expenditure since the commencement of the company's operations. I do not know that there is any item therein which requires special reference. The properties and concessions stand at 17,500t, which represents the original consideration paid for the properties, together with the amount expended on the exploration and development of them. And now, gentlemen, to be in order, I will move the adoption of the report and accounts.—Major-Gen. Burn seconded the proposition.

Mr. Pattison asked what decision had been come to in regard to the proposi-tion for working the mine in connection with others, by which the company would have been redeemed from the risk of the expenditure exoceding the pro-ceeds, and at the same time some margin left? The Chaurman said the only proposition he knew of was an expected advance to aid in carrying out the railway.

Mr. Pattison had understood an offer had been made to work the mine either upon a rocality or real.

MI. PATTISON had understood an oner had been made to work the mine either upon a royalty or rent.

The CHAIRMAN said it had never assumed a sufficiently definite shape to be considered by the board.

Mr. CHAIRMAN said the most important paragraph in the report was that referring to the Three Crowns property. He should like to know the terms upon which it had been acquired, whether the company was in actual possession, and whether a large additional expense was involved in making the railway, so as to acquire the mineral?

large additional expense was involved in making the railway, so as to acquire the mineral?

Mr. PATTISON asked if the directors would allow their remuneration to remain in abeyance until the company was working at a profit?—The Chairman said the company were in possession of the Three Crowns property, and were assured the title was perfectly good—in fact, that there was no risk of any question arising upon it. The terms were a royalty of 6d, per ton on a minimum output, making a rent of 800, per year; by a few months notice they could get rid of it, but it was held in perpetuity. As to the directors fees, they had not drawn anything since December, 1872, and did not propose to do so until the company were paying dividends. He added that it was not proposed to carry the railway further than the head of the valley, as from that point they had the choice of more than one means of conveyance. If they did not think proper to go to the expense themselves of transport it could be done by contract for 2 frs. or 3 frs. per ton; he had gone through the calculations, and found the contractor would realise a profit upon a moderate output of 800, per year—that was to say, if the company did not like to incur the expense of fixing the wire transway. The managers had reported very honestly the condition and prospects of the Three Crowns property. The shareholders had seen from the newspapers the conflicts going on between the Carlists and the Government, and when those difficulties were over there was no cloubt they would have an abundance of labourers, the absence of which was their only drawback; there was no shadow of doubt as to the extent and quality of the origin through the work a traction-engine with wagons, and bring down a very handsome quantity of ore, and when the present company were not using their railway, there was reason to expect a very considerable quantity of ore from other mines would be carried over it at very remunerative rates—that alone would give a very handsome return upon the outlay.

The report an rge additional expense was involved in mineral?

Mr. Pattison asked if the directors would allow their remuneration to remain

Mr. Pattison asked if the company was working at a profit?——The Chairman said

LLAY HALL COAL, IRON, AND FIRE-BRICK COMPANY.

The CRAINAN as all the compliment just passed made it the more acceptance to that everything would be done to promote the best hierces of the proprietors, the directors themselves holding three fourths of the shares. (Hear, hear.)

The precedings then terminated.

LLAY HALL COAL, IRON, AND FIRE-BRICK COMPANY.

The first annual ordinary general meeting of the shareholders was held on Wednesday at the offices of the company, 173, Fenchurch-street, E.C., Mr. FRANCHS BENNOCH in the chair.**

The notice convening the meeting was read by the Significant and held on Wednesday at the offices of the company, 173, Fenchurch-street, E.C., Mr. FRANCHS BENNOCH in the chair.**

The Utathrana said he was very happy to see the shareholders that day, first for the pleasure of meeting, and next from the fact that the directors had a very good report to submit in regard to the working would observe that they had the whole of the property entirely in their own hands; all their liabilities were paid of every kind, and they had a balance at the bankers of 4173. The whole of that sum, however, was already engaged for the works now in progress, which he should explain in detail presently. Some of those shareholders who had looked at the accounts might consider that the preliminary expenses and other charges during the first year of their operations to remember that this company had been floated upon a principle almost unique in itself—tast they had not paid a farthing of florunging premotion in any shape or way, he did not think the sum charged in the accounts might consider that the preliminary expenses and when the whole of the shares having been though of the charge of preceding the shares of the present shareholders would be very always and the present share present the property is the whole of the shares having been thought of the present shareholders would be reported to the present shareholders would be reported to the present shareholders would be reported to the present shareholders and their principle almost the pres

occurred. The board had no intention of undertaking an iron manufactory, but looked to the time when they should let their works to men who were already engaged in the trade. They had several applications for the works, and he did not doubt but that in the course of a very short period they would have the pleasure of reporting to the shareholders that the works were let. The advantages of such an arrangement were many and obvious. They would be emblied to utilise their rail-way now in course of construction: but the most important consideration was that they would thereby secure a very large customer of coal and the other articles of which they were the producers. Now, having all those matters so clear and clean informandshape, the next question that arose was, what were they doing to put themselves in communication with the markets of the country. The position of the railway that ran within a short distance of the property was such as to render it necessary to construct a branch line of about 1 mile in length. By this means they would be placed in direct railway communication with the principal railway systems of the kingdom, and also with the shipping port at Connah's Quay on the Dec. With regard to the .ost of the branch line, he was pleased to be able to state that owing to that knowledge having been employed in conducting the arrangements with the contractors, the cost of that branch instead of some 90000, or 10,0000, as originally expected, would not exceed 70000. (Hear, hear.) The line would be in the hands of the company probably by August, but by September at latest. Having detailed the general policy to be pursued, the Chairman said he would next consider the question as to the amount of profit to be realised. It would be to much to expect that the present prices would continue for a long period. They fully expected modifications would occur in present prices, and, taking those modifications into account, the directors had come to the confusion that even if they were to sell their coal at 10s. per ton

Liverpool itself. ne Chairman, in answer to a question, said that it would probably require the enditure of the whole of their capital of 75,000% to place them in a position to

The CHAIRMAN, in answer to a question, said that it would protect be expenditure of the whole of their capital of 75,000%, to place them in a position to raise 500 tons of coal a-day.

A slight discussion ensued, in the course of which several shareholders addressed the meeting, the general tenour of their remarks being of a congratulatory nature. The resolution for the adoption of the report was then unanimously carried. The formal business relating to the re-lection of retiring directors and auditors having been disposed of, the proceedings closed with a cordial vote of thanks to the Chairman and directors, the secretary, and manager at the works.

WEST MOSTYN COAL AND IRON COMPANY.

The statutory general meeting of shareholders was held, on Wed-

WEST MOSTYN COAL AND IRON COMPANY.

The statutory general meeting of shareholders was held, on Wednesday, at the City Terminus Hotel, Cannon-street,

Mr. Richard Silaw, M.P., in the chair.

The Secretary read the notice convening the meeting.

The Chairman said, as the shareholders were aware, the present meeting was the statutory meeting of the company, and, therefore, was merely of a formal character, being held in pursuance with the Act of Parliament, which required the directors of a newly-formed company to call the shareholders together within four months of the registration of the company. Now, the object of this Act would be patent to everybody; it was, undoubtedly, that the shareholders might have an opportunity of meeting the directors face to face for the purpose of ascertaining whether they had become connected with a bong bid or sham concern. So far as his (the Chairman) experience went, he was perfectly satisfied that they had a bong bid concern, but before he had consented to have anything to do with the company he had visited his friend, Mr. Jacob Higson, of Manchester, one of the most eminent engineers in that quarter, and it was not until he gave him (the Chairman) his assurance that it was of a very valuable character that he had consented to become connected with the company. The directors of the company though the their duty to visit the property themselves, and with Mr. Craig, the resident engineer, and Mr. Clarke, the contractor, they visited the whole of the property, and examined it most carefully, and they all had left the place with a very favourable impression. He might further state for the shareholders and that of the superintendent. The directors had no accounts to submit to the shareholders, nor dividends to present them with on this occasion, but at the end of six months they would have received sufficient money out of the contractor's funds to enable the directors had to take into consideration the probable amount of expital which would have received sufficient money out of the

monthly a sufficient sum was retained to ensure the payment or a givine of that amount.

Mr. Kimber said as there appeared to be no further questions to ask, he would propose a vote of thanks to the Chairman. He thought it was extremely satisfactory to the shareholders and the public generally to have a Chairman who had so thoroughly grasped the whole scheme of the undertaking. There was no doubt that in consequence of the untired character of the property some difficulty might arise with regard to the works of development, but he thought it was altogether the soundest and safest unworked field in the kingdom. (Hear, hear.)

Mr. EDWARDES seconded the motion, and it was carried with neclamation. The Chairman having returned thanks, the meeting terminated.

MID-MOONTA COPPER MINING COMPANY.

An extraordinary general meeting of shareholders was held on Tuesday, at the City Terminus Hotel, Cannon-street,
Mr. CHARLES MORRIS in the chair.

Mr. Charles Morris in the chair.

Mr. P. H. Pope (secretary) read the notice convening the meeting.

The Charrman said: Gentlemen, this meeting, as you know, is called for the purpose of confirming certain special resolutions that were made at the last meeting, which took place on March 3 last,

The Schrtauy then read the said resolutions.

The Charrman; I propose that these resolutions be now confirmed. — Mr. Campell, seconded the motion.

Mr. Hill.: I beg to move, as an amendment, that the resolutions be confirmed, with the exception of the one relating to the directors' remuneration. — Mr. H. W. Water seconded the proposition.

Mr. Hill: I beg to move, as an amendment, that the exception of the one relating to the directors' renumeration. —Mr. H. W. White seconded the proposition.

The Chairman: Mr. Herbert (solicitor to the company) tells me that I cannot put an amen iment; the question is whether or not the resolutions be confirmed I must put it in this way—that all the resolutions be confirmed, with the exception of the one relating to the directors' renumeration. The Chairman then moved the confirmation of all the resolutions with the exception of the one in question.

—Mr. CAMPHELL seconded the motion, which was then unanimously carried.

Mr. Hill said the only reason he had for rejecting the resolution was because the Mid-Moonta, although they had great hopes of it from the reports received from the colony, was very much in the position of an unproved mine; therefore, the services of the directors could not have been very onerous. Of course, the amount of 500°, the sum proposed, was either large or small in proportion to the success attained. His opinion was that the sum was large under the circumstances. —The Chairman observed that the remuneration proposed was not paid in money, but in shares entirely. There would be no money forthcoming. —Mr. E. B. Guvbeots said that until they were in a position to see that they were really earning something the directors would honour themselves by deferring the question of remuneration. The Chairman said the question had been for some time before the shareholders. If the company succeeded the proprietors would not grudge the sum proposed; for the other hand, their property were worthless they give nothing away —Mr.

from the funds of the company; therefore, it was proposed that the remuneration

of the directors should consist of shares.

The Chairman then moved the confirmation of the following resolution:—"That in addition to the salary of managing director in Australia the sum of 50%, is here of voted to the directors for their past services, such sum to be divided among them as they shall think fit "—The resolution was confirmed by eight votes against three, the directors voting.—Mr. White then demanded a poll, and, on the requisition being duly signed, the Chairman said the poll would be taken on Thursday, April 2, at the offices of the company, between the hours of 12 and 1.

The proceedings then terminated.

ORINOCO GOLD MINING COMPANY.

A general meeting of the contributories of this company was held, A general meeting of the control of resolutions of this company was ned, on Wednesday, at the City Terminus Hotel, Cannon-street, for the purpose of submitting an account showing the acts and dealings of the liquidators, and the manner in which the winding-up has been conducted during the year ending June 30, 1873, more particularly with reference to the position of the company under the agreement dated June 29, 1872, and made between Hilarion Nadal of the country of Stephen Horny Engagement dates the control of the country o

of the liquidators, and the manner in which the winding-up has been conducted during the year ending June 30, 1873, more particularly with reference to the position of the company under the agreement dated June 29, 1872, and made between Hilarion Nadal of the one part, and Stephen Henry Emmens of the other part; and for the purpose of submitting resolutions having for their object the guidance of the liquidators in the steps, if any, to be taken for enforcing such agreement. The chair was occupied by Mr. E. SCHUBERT, one of the liquidators. The notice convening the meeting was read.

The CHAIRMAN said the liquidators had not gone into a regular balance-sheet on the present occasion, but they had not gone into a regular balance-sheet on the present occasion, but they had made out an account showing the credit and debit of the contributories they had still open. If any shareholders desired to see them they were on the table for their inspection. He night mention that in the beginning of 1872 he made the acquaintance of Mr. Emmens, that general temma being a promoter of joint-stock companies. At that time the company stood in need of additional capital, and Mr. Emmens having expressed a favourable opinion is to the nature of the property, promised that if the company went into liquidation he would take the matter up, and form a new company to work it. Accordingly a promoter of the property in the company to work it. Accordingly a promoter of the property in the property of the property of the property in the property of the property. If the property is not the proposed that the directors should advance the money, though the company was not at that time property of the property of the

VAN MINING COMPANY.

The general meeting of the shareholders was held on the mine on rednesday, Mr. W. Page in the chair. Wednesday, Mr. W. Page in the chair.
Mr. W. J. LAVINGTON (the secretary) read the notice convening

the meeting.

The report of the directors and balance-sheet (which appeared in

Mr. W. J. LAVINGTON (the secretary) read the notice convening the meeting.

The report of the directors and balance-sheet (which appeared in last week's Journal) were taken as read.

The report of the manager was read, as follows:—

Murch 24.—I beg to hand you, as under, a general report of our progress here since our last half-yearly meeting; in August.—Scaham's Engine-Shaft: This shaft has been sunk since your last meeting 3 fms. below the 75, and is now a total perpendicular depth from surface of 98 fms. 5 in. We have cut and timbered a commodious lodge or plat, also a loom for the storage of water, which in case of any temporary stoppage of the pumping machinery will contain four hours accumulation of water. The 75 fathom level cross-cut has been driven north to intersect the lode from the shaft a distance of 17 fms.; we have not as yet driven throughly through the lode, but in our opinion, when such is done, we shall probably find it to be about 6 fms. wide. The last 4½ fms. driven through has been intermixed with lead ore throughout. We have now started to drive westward upon a rib of steel ore and blende. We have driven 9 ft., and, so far as seen, the lode is very strong and masterly, and much improved, as compared with the same point in the 60 overhead. We have about 3 fathoms more to drive west to get under the great course of ore seen going down upon the main leader of the lode in the bottom of the 60, which is worth 100, per cubic fathom. The 60 fm. level has been extended westwards 24 fathoms, upon a lode varying in produce from 15t. to 100, per cubic fathom, but will average for the 24 fms. about 40t, per cubic fathom. At the present end the lode is worth 70t, per cubic fathom. The total length of this level west of shaft is now 47 fms. The same level, east of shaft, has been extended upon main leader of the lode 18½ fathoms: total length at present, east of Seaham's shaft, 36 fms. The piece of ground passed through in this drivage is worth on the average 50t, per cubic fathom. We are stripping the footwall of the lode, from the bottom of the winze, in order to communicate with the 60, which is driving upon the footwall, when it reaches this point. We have also commenced sinking another winze at a point 75 fathoms west of shaft, for the Mr. Hill.: I beg to move, as an amendment, that the resolutions be confirmed with the exception of the one relating to the directors renumeration. —Mr. H. W. White seconded the proposition.

The CHAIRMAN: Mr. Herbert (solicitor to the company) tells me that I cannor put an amen liment; the question is whether or not the resolutions be confirmed, with the exception of the one relating to the directors renumeration. The Chairman then moved the confirmation of all the resolutions with the exception of the one in question. —Mr. C. Amphill. Seconded the motion, which was then manimously earned.

Mr. Hill. said the only reason he had for rejecting the resolution was because the confirmation of all the resolution of an unproved mine; therefore, the services of the directors could not have been very onerous. Of course, the amount of 500%, the sum proposed, was either large or small in proportion to the success attained. His opinion was that the sum was large under the circumstances. —The Chairman these was all that until they were in a position to see that they were really earning something the directors could not have been very onerous. Of course, the amount of 500%, the sum proposed, was either large or small in proportion to the success that ined. His opinion was that the sum was large under the circumstances. —The Chairman these sum as large and the circumstances and the continuation of the continuation of

did lode in our 45 west, a spiendid lode in our 60, the same in our 75, and a splendid lode going down in bottom of the 75 for the 69. By looking at the section, at the amount of ore ground in reserve, you will see that our reserves are continually augmenting, and I am glad to be able to state that never at any former period have they been so large as at the present time.—Ww. WILLIAMS.

The CHAIRMAN moved the adoption of the report as circulated, and stated that during the existence of the company 25,565 tons of lead and 5320 tons of blende had been sold, realising 371,4664, and that to the end of the year 1873 the sum of 167,250L had been divided amongst the shareholders in the shape of dividends.

Capt. WILLIAMS, in reply to questions, stated that the 30 was above 35 fms. from Edwards's shaft, and to this point the lode has been proved good. The 45 west was about 80 fms. from Edwards's shaft, and could be communicated in about 13 months. The 30 could be communicated in about six months. Edwards's shaft was not deep enough yet for the 30, and at present the water was in, but when communicated with the 30 the sinking can be resumed. The lead about Edwards's shaft contained less blende, and was altogether of a purer character. The 45 end, towards Edwards's shaft, was just coming into a good course of ore already proved in the 30 overhead. The lode in the 75 was, at the point intersected, richer than in the 69 overhead. The lode of steel ore, though continuous, was in places larger than at others, and as depth is attained the lead produced is found to contain more silver. The 60, both est and west of Seaham's shaft, has a continuous course of ore. None of the level eastward are yet under the old workings. He was quite satisfied with the 16 and would be cheaper.

The report and brance-sheet were adopted. Mr. W. Page was re-elected a director, and Mr. Whaley auditor.

but entertains a good nope of being able to cheek a resultation. Coals, at all events, would be cheaper.

The report and balance-sheet were adopted. Mr. W. Page was re-elected a director, and Mr. Whaley auditor.

Several shareholders present went underground, and were well satisfied with the appearance of the mine, especially in the bottom level.

Votes of thanks to the Chairman, directors, and manager closed the proceedings.

GREAT WHEAL VOR UNITED MINING COMPANY.

The general meeting of shareholders was held at the offices, Gres-

The general meeting of shareholders was held at the offices, Gresham House, on Wednesday,—Mr. J. O. Hanson in the chair.

Mr. J. J. Truran (the secretary) read the notice convening the meeting. The report of the committee was read, as follows:—

By the circular of the committee of management issued with the notice convening the usual quarterly meeting, the shareholders have been made aware of the great fail which has taken place in tin during the last three months, amounting to no less than 18%, per ton, thus increasing considerably the loss that was estimated by the agents as likely to be made in the development and working of the mine from that period to the present time. The committee regret, also, that they are unable to report any material improvement in the mine itself, as will be seen from the agent's report to be now presented. In the circular alluded to it was mentioned that an inspection of the mine would be made by Captain Josiah Thomas, of Dol coath Mine, and by Capt. William Thomas, of Creuver and Wheal Abraham Mines. Their reports have been received, and will also be presented to the meeting. In addition to this the committee have been using every means in their power of acquiring reliable information as to the future prospects of the tin market, both as regards supply and demand, and, although it is thought that the price of tin cannot continue at its present depressed figure, yet, owing to the stocks on hand and large importations still taking place and expected from Australia and elsewhere, it is feared the demand will not be sufficiently great to cause any material rise in price for some time to come. Under these circumstances the position of the mine is one of great anxiety, as it cannot be carried on as at present except under a heavy monthly loss, and which can only be met by calls on the shareholders; it will, therefore, be necesary at the special meeting, to be held after the business of the ordinary meeting is inished, for the shareholders to decide as to what course had better be pursue

38 7 6 55 11 11 85 10 9 790 13 9 620 0 9 £2015 10 1 Total And pand—

Labour pay to Jan. 31 £996 5

Travelling expenses to the mines 9 0

Office rent, &c., six months. 49 12

Sundries, postage, discount, &c. 419 1049 17 1 Balance (cash and bills)

The actual account stands this day as follows:—

Liabilities—Labour pay to Feb. 28

Merchants' bills

Lords' dues, six months

Salaries, three months, and inspection of mines. £ 965 13 0 £1001 16 8 2873 17 2 267 14 5 92 6 0
 Total
 £4235 14 3

 From which deduct —
 2ash and bills in hand, as above
 £915 13 0

 Arrears of calls
 64 3 9= 1019 16 9

the committee recommend, and suggested by our own agents, Cap. Thomas, and others.

The report of the managers was then read, as follows:—

March 21.—During the past quarter we have been pushing on the development west of Edwards's shaft as fast as possible, in order to get clear of the influence of the cross-courses which we have had to contend with so many fathoms, and we are glad to say that we believe we are quite clear of cross-courses in both the 174 and 184, and into clean ground; but we regret to say, although the lode is regular and weld-efined in both these levels, producing some good stones of tin, it is not of sufficient size to pay for working, yet it possesses everything congenial for the production of large quantities of tin, and our confidence is not at all shaken as to the ultimate result if fully developed. We have sunk a winze 4 fms. below the 174 fm. level, between the two limbs of the cross-course: the lode here is 18 in. wide, producing stamping work. We have been obliged to suspend the sinking of this winze, in consequence of too much water to contend with. From the underlie of the lode in the present bottom of the winze it must be north of the 184 fm. level, and we have just commenced a cross-cut north to intersect it, the driving of which is drawing off the water from the winze, which we think a favourable indication of the lode being met with by extending the cross-cut a few feet further. In the eastern part of the mine we are driving the 164 fm. level east, where we have a lode 2 ft. wide, worth 20%, per fathom; this level is opening up a large quantity of payable ground, and as the 152 or any of the shallower levels are not extended as far east by a gead distance as the 164, the chances are that there is a great extent of tin ground standing above the 164 fm. level home to the present cross-course. A rise above the 174 fathom level, which is just behind the present lofe end, is up 6 fms., on a lode 2 ft. wide, worth 18%, per fathom. East of this rise we have two pitches working, both The report of the managers was then read, as follows:-

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The report of Captain Josiah Thomas (of Dolcoath) was read, as

The report of Captain Josiah Thomas (of Dolcoath) was a follows:—

March 10.—Wheal Metal: I inspected this mine again yesterday, and afterwards had a conversation with the agents on the best mode of working for the future since my last inspection, in November, there has been no particular change in the ends west of Edwards's shaft, except in the 164 fm. level west, where the lode has of late improved in appearance, and produces some rich stones of tin. This end appears to be fairly beyond the influence of the cross-course. In the 174 fathom level west, which is a little behind the 164 fathom level, the lode is small, and not of much value. In the 184 they are at present driving north, with the hope of intersecting the principal part of the lode. The tin ground in the eastern part of the mine is showing signs of rather greater permanency than was expected. The lode in the stopes below the 174 and 184 is continuing of about same value, and there is a good lode in a tribute pitch over the 174, near the eastern

end, where the lode is worth upwards of 30% per fathom. The lode in the 162 fm. level east, which is about 15 fms. short of the pitch, is also improving, and is now worth 15% per fathom. It seems probable, therefore, that more tin ground will be found to exist above the 162 than we formerly supposed, and it would be desirable so soon as convenient to drive the 152 or some other upper level in that direction.

Looking at the poverty of the lode, however, as seen a little further east, in Sithney the start of the mine; and, expected that anything very durable will be found in Wheal Metal, it cannot be expected that anything very durable will be found in the fart of the mine; and, expected that anything very durable will be found in the fart of the mine; and the surpround has not yet been tried to any great extent beyond the branches of the cross-course by which the lode has been disordered, tent beyond the branches of the cross-course by which the lode has been disordered, tent beyond the branches of the cross-course by a compared with the great direction of the deep levels west of Ivey's shaft, and at the difference in the general direction of the deep levels west of Ivey's shaft, and at the difference in the great direction of the deep levels west of Edwards's, as compared with the lode in the castern part of the mine, I think it is very possible that the main the lode in the castern part of the mine, I think it is very possible that the main the lode in the castern part of the mine, I think it is very possible that the main the lode in the castern part of the mine, I think it is very possible that the main the lode in the castern part of the mine, I think it is very possible that the main the lode in the castern part of the mine to the questions referred so one sour level, level with the cast in the father of the lode with the lode in the lode level with the lode in the lode level with lode in the lode level with lo

SHAH THOMAS. of Captain William Thomas (of Crenver and Wheal

will continue exploring the for the present until better prices can be obtained.—
Josial Thomas.

The report of Captain William Thomas (of Crenver and Wheal
Abraham) was read, as follows:—

Abraham) was read, as follows:—

March 18.— I inspected on the 12th instant Wheal Metal portion of these mines,
and beg to offer you the following as my report thereon:—Edwards's Shaft: The
and beg to offer you the following as my report thereon:—Edwards's Shaft: The
in appearance, and is now yielding good stones of tin, and looking at the nature of
in appearance, and is now yielding good stones of tin, and looking at the nature of
in appearance, and is now yielding good stones of tin; us from appearances
the ground you may expect a further improvement shortly, as from appearances
it is in settled ground, and has got beyond the influence of the cross-course. In
the 14s west the lode is about 10 in, wide, producing good stones of tin; this end
the 14s west the lode is about 10 in, wide, producing good stones of tin; this end
the 14s west the lode is about 10 in, wide, producing good stones of tin; this end
the 14st has been famous for. In each of these ends an improvement may daily be
expected. The 18st west has been suspended, and the men are engaged in driving
north to prove if any lode is in that direction; there are no signs of a lode in this
end, but, judging from the water issuing from the south side of the level, I should
say the lode driven on at the 174 was standing to the south of the end—the 184.—
Metal Shaft, or Eastern part of the Mines: The lode in the stopes in the back and
bottom of the 184 is yielding a great deal of tinstaff of moderate quality; there is
a good bunch of in in a tribute pitch in the back of the 174 mount from 25t. to
30t. per fathom, and there also appears to be a large quantity of tinstuff in the back
of this level. The lode in the 182 east is worth from 10t. to 12t. per fathom; this
end is not driven so far east by several fathoms as where the tin in the back of
the 14fm level. The ground i

The CHAIRMAN said if on previous occasions he had had to regret The CHAIRMAN said if on previous occasions he had had to regret the absence of their esteemed chairman—Mr. Divett—he was sure they had double cause to-day, not only because Mr. Divett was a man of great practical mining experience, but also because he is by far the largest shareholder in the mine. Mr. Divett, however, had written to say that he is perfectly ready to acquiesce in any course the meeting might agree to adopt. The shareholders present had heard the report of the committee of management, that of their own agents, that of Capt. Josiah Thomas (the toller of Mr. Trelawney), and also that of Capt. William Thomas, who was asked to inspect the mine on behalf of the shareholders. He might mention that the two inspecting agents did not visit the mine the same day, and, therefore, their reports were perfectly independent of each other. It was a poor consolation that the shareholders in Great Wheal Vorshould find themselves in the position—innortunate position—in should find themselves in the position—unfortunate position—in which most of the mines in Cornwall were at the present time, owing to various unfortunate circumstances, but mainly to the imports of Australia. Australia tin, which had reduced the price of that metal to a point at which few, if any, mines could be worked at a profit. Under these circumstances, it behoved the shareholders of Great Vor to consider the state of the stat these creumstances, it behoved the shareholders of Great vor to consider their position, and to see if they could, if possible, retrieve the large outlay incurred. The report of the committee was based upon the best possible information, and pointed out that there were three course open for the adoption of the shareholders, but inasmuch as the first two would involve a serious loss, and one of them could not be carried out without making calls, he did not think it worth while to further refer to them, but with the consent of those present he would further refer to them, but with the consent of those present he would go a little into detail upon the other alternative. As an original shareholder, having been connected with the company for 22 years, he had passed through the various phases of the mine; and he might mention the company was, in the first instance, formed for the pur-pose of draining what was called Old Wheal Vor, and in the sett was pose of draining what was called Old Wheal Vor, and in the sett was included the property called Wheal Metal; but, perhaps, in order to prevent confusion, it would be more convenient to call Old Wheal Vor No, 1, Wheal Metal No. 2, and the western ground No. 3. The object for which the company was originally formed was attained by the draining of No. 1, but while the draining was being carried on No. 2 gave them profits to the amount of 20,000L, the whole of which was expended in the draining of No.1. In 1860 the property they were now working and which had since been so very rich, fell which was expended in the draining of No.1. In 1800 the property they were now working, and which had since been so very rich, fell off materially, until the returns became reduced to 4 tons per month, the company involved in debt to the extent of 12,000%, and the arrears of call were no less than 7000%. At that time they had to seriously consider their position, and, acting under the advice of experienced miners, it was agreed to do that which it was now proposed to doinstead of abandoning their property they faced their difficulties. miners, it was agreed to do that which it was now proposed to do instead of abandoning their property they faced their difficulties, abandoned all the unprofitable deep workings in the old mine, pulled up the pumps, pitwork, &c., sold the machinery, and with the proceeds worked No. 2, or Wheal Metal, which had, happily, proved so successful. The committee were backed by the shareholders, and in a very short time, by sinking the shaft for a few fathoms, the returns gradually increased from 4 to 70 tons of tin per month, the value of the lodes at the different points of operation amounting to returns gradually increased from 4 to 70 tons of tin per month, the value of the lodes at the different points of operation amounting to 1100l, or 1200l, per fathom, and since then the mine had returned to the shareholders in dividend upwards of \$8,000l., and the lords had been paid 22,000l. in dues, of which Mr. Trelawney received 18,000l. The course proposed to-day is this—to abandon the whole of the old workings, offer the machinery to Mr. Trelawney at a valuation, and, in the event of his declining to take it, convert it into money, and with the proceeds attach flat-rods to the western engine, and

as

cessful working of Cornish mines. They knew that discoveries had also been made in California, Mexico, Queensland, and Tasuania, but opinions differed somewhat as to whether Australia could import tin at present prices to pay, and if it could not they, of course, hoped to see better prices. There were, however, large shipments on the way, but it would take some little time before the effect of the falling off would be realised. The course the committee now proposed had this advantage—that it would give them time to see whether the tin market was likely to improve or not; and another paramount advantage was that it would not be necessary to call upon the shareholders for any further advances in the shape of calls. As regarded their present financial position, of course, a call of 10s. per share was unavoidable, and it was clearly in the interest of the per share was unavoidable, and it was clearly in the interest of the shareholders it should be made to liquidate the debts. From all the committee had been able to ascertain, and from all the opinions excommittee had been able to ascertain, and from all the opinions expressed, there was certainly a fair and reasonable chance of success. (Hear, hear.) All mining was speculative, and it might so happen that, after all, they might fail, but, even under those circumstances, they would have the great satisfaction of knowing that they had not, as it were, parted with their property; if, however, any reliance could be placed—and he believed there could—upon the opinions of competent miners, such results would be realised as to at least somewhat retrieve their position. (Hear, hear.) The committee were one with the shareholders, and not one of the committee had sold a single share, but would stand or fall with the concern. He hoped single share, but would stand or fall with the concern. He hoped that if the shareholders adopted the course shadowed forth they would again be well rewarded, and that the result of the present

would again be well rewarded, and that the result of the present meeting would be the re-entry upon another career of prosperity. Upon the proposition of Mr. Harver, seconded by Mr. Marsdex, the accounts were passed and allowed, and the report received and alopted.

Upon the proposition of the Chairman, seconded by Mr. Charles Williams, a call of los, per share was made.

Mr. Marsdex had much pleasure in proposing the re-election of the committee. Although the position of the company just now was not an agreeable one, everything that careful management could do had been done by the gentlemen whose names he was about to propose to be re-elected. It could not by any possibility be any repreach upon those gentlemen that the company's affairs were not in a more flourishing condition. (Hear, hear.) He had much pleasure in proposing the re-election of the committee of management.

Mr. Stepherson seconded the proposition, which was put and carried unanimously, the sum of 20 guineas being voted as their remuneration.

Mr. W. Moates was re-elected auditor.

A special meeting was then held to consider the course shadowed forth in the report,—Mr. J. O. Hanson in the chair.

The Chairman, in introducing the question, mentioned that Great Wheal Vor had paid its largest dividends when tin was only 43l, per ton, or 5l, lower than at the present moment. In 1860 the shareholders adopted a somewhat similar resolution to those now about to be submitted. The shareholders had confidence in the committee then, and passed the resolutions. He then read the resolutions, as follows:—

"That all operations to the east of Edward's shaft be forthwith discontinued.

follows:—
"That all operations to the east of Edward's shaft be forthwith discontinued
"That all operations to the east of Edward's shaft be forthwith discontinued "That all operations to the east of Edward's shaft be forthwith discontinued, we so far as may be necessary or expedient for the purpose of realising such part the machinery and materials on that part of the mine as may not be required a working the ground to the west of Edward's shaft, or for any other purpose or sject arising upon or in consequence of the resolutions of this meeting, and that the future workings be confined to that part of the mine lying to the west of Edward's shaft."

for working the ground to the west of Edward's shaft, or for any other purpose or object arising upon or in consequence of the resolutions of this meeting, and that the future workings be confined to that part of the mine lying to the west of Edward's shaft."

"That the committee be and are hereby authorised, empowered, and directed to take all needful steps, and do all needful acts, to give effect to this resolution."

"That the committee be and are hereby authorised and expowered to take all such measures as they may think expedient for the purpose of realising, as far as practicable, so much of the plant, machinery, and materials as they may demit unnecessary to retain; and either by sale in one lot or in various lots, and generally in such manner as they may think most advantageous, and to enter into such arrangements with the lord or with any other persons for that object as may appear expedient, or as they may think desirable."

"That the committee be and are hereby authorised and empowered to adjust, arrange, and settle in such manner as they may deem most expedient all questions and claims (if any) arising upon or in respect of the workings to be abandoned under the previous resolutions, and the realisation of the plant, machinery, and materials thereby directed."

Mr. R. W. Childs (the solicitor) explained that in 1890 he had the painful nocessity of drawing up the resolutions then acted upon, and on this occasion almost a precisely similar conjuncture had occurred, the only difference being that in the resolutions they had to omit the provision for the abandonment of setts—mov all the setts were worked as one.

Mr. Marsder asked if the recommendation of the committee was entirely in accordance with that of the agent?—The Chairman himself.

Capt. Hards said his recommendation was that the old mine should be abandoned, and work the western ground.

Mr. Marsders said he would move that the committee had exercised a very wise discretion in making the suggestion they had done. The special feature in the re

A manimous vote of mains was passed to the chairman and committee of management.

The Chairman, in acknowledging the vote, said that, on behalf of his colleagues and himself, he begged to thank the shareholders for their renewed mark of confidence. Such confidence was an example for other companies, which if more followed would tend to more successful management, because companies could not go on without the shareholders had confidence in those to whom they entrusted the management of their affairs. All he could say was that the committee of Great Vor would continue to do all they possibly could to promote the best interests of their shareholders. (Hear, hear.)—The meeting then separated.

PROVIDENCE MINES, LELANT.

At a meeting of the adventurers held at the mine, on Wednesday, At a meeting of the adventurers and at the mine, on Wednesday, the accounts showed:—Dr.: 12 weeks' wages due to January 30, 3002!. 9s. 6d; carriage, 86!. 14s. 6d.; merchants' bills to the end of January (including bank interest and commission), 593!. 14s. 7d.; coals, 60!!. 13s. 4d.; Trelyon and Providence United cost., 11!!. 2s. 8d.; making total costs, 4395!. 14s. 9d. Credit: Tin sales, 55; tons (average price per ton 57!. 9s.), sold for 3197!. 16s. 4d.; deducted from the company of the company the costs, as above, shows a loss on the twelve weeks' working of 11974, 18s. 5d. The debit balance brought from last account (after deducting the call then made, &c.), 11674, 6s. 11d., leaves a total balance now due from the shareholders of 23651, 5s. 4d. In order

deducting the call then made, xc.), 1107l, 6s. 11d., leaves a total balance now due from the shareholders of 2365l, 5s. 4d. In order to liquidate this balance it was resolved that a call be made of 2l, per share, making 2240l.

The agents' report stated that the 75 east, on the north lode, is worth 30l, per fathom. At the 75 fm. level 12 men are working the end and stopes, which are valued at 60l, per fathom. These stopes have produced in the past month about 10 tons of tin. At Hawke's shaft the lode is worth 10l, per fathom. The 14 west by four men, driving at 4l, per fathom, valued at 15l, per fathom. The 14 west by four men, driving at 4l, per fathom, valued at 15l, per fathom. This part of the mine is opening up very satisfactorily. There are now employed 102 men on tribute at an average of 13s. 4d. in 1l. and 50l, per ton for tin. The estimated returns for the next three months are 55 or 60 tons. The agents' report concludes by stating that after six months further working in opening up Hawke's shift (should the prospects continue as at present) the returns may then be estimated to fully meet the expenditure, even with tin ores at present prices.

There was a large attendance of shareholders, about 40 being present. An animated discussion took place on the position of the mine, and what steps could be judiciously adopted to meet existing circumstances and enable the mine to be kept working on such a scale as would be most advantageous to the shareholders. It was at length decided that the agents of the mine he continued as previously, but that their salaries be reduced all through, beginning with the purser downwards, and other curtailments the agents stated had been already carried out on the surface, as well as the wages of the miners underground; all had been most carefully revised and reduced towards "meeting the times."

It was also resolved by the meeting that the shareholders express their deep regret at the continued illness of their respected nurser. Mr. Histor.

and, in the event of his declining to take it, convert it into money, and with the proceeds attach flat-rods to the western engine, and drain No. 3, or the western ground, which the miners told them offered a good and reasonable chance of success. He ought, perhaps, to mention that the conditions of mines were not precisely the same now as in 1860, because the price of tin was then 75t, per ton, whereas now it was 50t, and coal, which constitutes the main cost of working mines, was then 11s. 6d, instead of, as now, 18s. 6d, or 19s. per ton, Therefore, in looking at this question they had to ask themselves whether Australian tin, with which they had now to compete, could be imported into this country at such a price as to prevent the suc-

to in most kind and appreciative terms by not only Mr. Bamücki, but Messrs Harvey, Heard, Wilkinson, Wellington, and many others who were present at the meeting, and hopes expressed that he might soon again with improved health resume his usual routine of duties.

I to in most kind and appreciative terms by not only Mr. Bamichl, but Mesrs Harvey, Heard, Wilkinson, Wellington, and many others who were present at the resume his usual routine of duties.

One of the special toasts given was "A better price for tin," with which was included the names of two gentlement present—Mr. R. Wellington and Vr. T. Field—who were called upon as great authorities on the all important and vital question for Cornwall, to give their views on the present prospects of the tin market.—Mr. Field said, with reference to better prices, he wished to his hearth le could now give them, but the fact is they (the tin smelters) have just now no control over the market; they were now beat by the Australian supplies, but for this circumstance tin might now possibly be as high as 90, per ton. He considered the consumption of tin was gradually increasing, and the supplies from divers sources were likewise increasing far too much. He really feared Cornwall must yet suffer very much, but he would venture to express his doubts whether Australia could send supplies to European markets which would be remunerative to them (the producers) at existing quotations. He would strongly urge the greatest economy possible now in working tin mines in Cornwall. He regarded these mines—Providence—as a most important source of industry for this the Lelant district, and he would earnestly hope that all would pull well together, and thus endeavour to tide over this trying period, for he really hoped ere long to see much better times.—Mr. Wellington) had just received private information from Australia, giving reports of the very rich tin lodes found there, some of which were 8 to 9 ft. who, of which le left put prom that source it was quite impossible to form any opinion. He (Mr. Wellington) had just received private information from Australia, giving reports of the very rich tin lodes found there, some of which were 8 to 9 ft. who, of which do in, was solid tin. He believed Australia would become an enormous tin-producing cou

Mr. EDWARD TRYTHALL, the secretary (who acted in the absence of the purser), presented an admirably arranged synopsis of the accounts of the mine, which showed that during the time the mine has been at work tin and copper ores have been sold of the value of 508,670°, 193dividends have been declared, of 104,128 × 61. per each 1120th share, making a total sum of profits paid the adventurers 113,820°. The calls made on the shareholders on first opening up the mine amounted to 13,714°, whilst the lords have received in dues 21,835°. The total amount paid in wages and n the other incidental expenses of working the mines from the commencement have been 448,336°.

SICILIAN SULPHUR MINES COMPANY.

SICILIAN SULPHUR MINES COMPANY.

The ordinary general meeting of shareholders was held at the London Tavern, Bishopsgate, on Wednesday,
Mr. ALEXANDER in the chair.

Mr. EDMUND ETILINGER (thesecretary) read the notice convening the meeting, and the reports of the directors and engineer, with statement of accounts, were laid on the table.

The Chairman expressed regret that, as the 19 shareholders necessary to form a quorum were not present, the meeting would not be competent to pass any resolutions, but stated that he would, nevertheless, make a few remarks which might be interesting. He observed that the main features of the report were that the directors found it necessary to make a call of 10. Der share, and that they were found it necessary to make a call of 10. Der share, and that they were

sary to form a quorum were not present, the meeting would not be competent to pass any resolutions, but stated that he would, nevertheless, make a few remarks which might be interesting. He observed that the main features of the report were that the directors found it necessary to make a call of 11, per share, and that they were not in a position to declare a dividend. Some profit had been made, but this was in the shape of unrealised stock, and was, therefore, unavailable for distribution. The directors much regretted this, but the eause of it was explained in the reports. There had been a succession of heavy rains, resulting in a general flooding of the district, and the water getting into the mines. He was glad to say that Mr. Shelferd stated this to be a very unusual occurrence. The consequence, however, was that there had been much expenditure operations and the fusion had been interfered with the mines. Both the mining operations and the fusion had been interfered with the mines. Both the mining operations and the fusion had been interfered with the mines. Both the mining operations and the fusion had been interfered with the mines. Both the mining operations and the fusion had been interfered with the mines. Both the mining operations and the fusion had been in the control of the directors, and he believed those causes to be of a very exceptional nature, although on three coasions in three months during the past season the water had got through the fissures into the mines. This had not, however, affected the sulphur bearing value of their property, and had not prevented the realisation of some profit. He was, however, stating that the storms had been renewed. He then read the letter from Mr. Girl, in which it was stated that the general damage to the sulphur mines had been ogreat that there must be a reduction in the production, and consequently a rise in which it was stated that the general damage to the sulphur mines had been great that there must be a reduction in the production, and consequently aris policy which he has always had in view—to keep a number of mines at work in various stages of development, so as to distribute both the mining risks and the cost of management. The experience already gained points to the desirability of working a number of small mines favourably circumstanced, rather than a few large ones, unless their character is well known. The difficulty is to get them. In matter of detail, he thinks better results may be obtained by—1. Regulating the Sicilian method of underground working.—2. Obtaining more sulphur from the ore by an improved mode of fusion.—3. Reducing the cost of raising the ore and water to the lowest point.—4. Improving the means of transport where possible. And to these points Mr. Gill's special attention is directed. Lastly, he is of opinion that whatever disappointment the shareholders may feel at the delay in obtaining a return upon the chpital expended on Sinatra, they have a valuable property, and their immediate prospects are very good at Grasta Nnova and Gibellini.

Mr. VIAN remarked that as to sulphur deposits he had always supposed that the regularity of the deposit was almost beyond question, but from Mr. Shelford's report it appeared that the sulphur cannot be relied upon, and that in Sinatra the sulphur had been cut off; he would also like to learn the probable production of the mines.

sulphur had been cut off; he would also like to learn the probable production of the mines.

Mr. Shelford stated that when he was before in Sicily he had found the roads tolerably good, and the railways working well, but on this occasion he found the railways carried away, and even the road bridges, some of them very substantial structures between Falermo and the mines, were washed away also. He explained that over the sulphur deposits there occurred masses of gypsum with enormous fissures, through which the streams of the country frequently lose themselves. It was, however, only after exceptional rains that there was any difficulty in the sulphur mines from water. Grasta was close to one of these places, yet such an occurrence as that which they were now suffering from had occurred but once before. The water may have done them much damage, but they must remember that Grasta was but one of their mines. Very little was known to geologists as to the mode of occurrence of sulphur, but Capellini, the professor of geology at the University of Bologna, was of opinion that it occurred in stratifice beds somewhat like coal, and his own examination of at least 100 sulphur mines to a great extent confirmed that view. Matura, the Government mining engineer, in his work on Sicilian sulphur

shows a section of a seam of sulphur precisely as a seam of coal, and entertains the idea that although it may be faulted it may be found again in the same way; but for his own part he was not inclined to go so far as this, for he believed they were given to dying out. Indeed, the consideration of their mode of formation would support this view. They were certainly due to internal springs, and they found the deposit to consist of alternate laminations of ore and sulphur often many metres thick in the aggregate, the whole apparently thrown up like the mud volcanoes. In this case the extent to which the deposits spread out would of course be limited by the contour of the surface. The question of water was a serious one, but he believed their pumping-power was ample even for floods. He remarked that the industry in which they were engaged was no small matter, as it gave employment to 40,000, and he believed that if they did not make a profit it was their own fault. After some further conversation the CHAINAM declared the meeting to stand adjourned for a week, remarking that as he did not think any others were likely to be present he did not see that the shareholders need trouble themselves to attend.

SILVER PLUME MINING COMPANY.

A general meeting of shareholders was held at the offices, Great Winchester-street, on Wednesday,—Mr. John Савв in the chair. Mr. F. Orchard (the secretary) read the notice convening the

Mr. F. Orchard (the secretary) read the notice convening the meeting.

The report of the directors stated that since the last meeting they have been assisted by the committee of shareholders, who have co-operated with them, and Mr. J. V. Smelley, one of the number, has since joined the bord. The miners creased working in July, owing to their pay being in arrear, and that the vendors of the property, through their agent, Mr. Jacob Snider, have brought a suit against the company for a molety of the proceeds of sale of ore. The defence is that the company is bound only to necount to the vendors for one-half of the net profits, shown in the balance sheets, up to 25,00%, the fact being that instead of a profit, the company have made a loss up to this date, as is shown by the balance sheets. The effort to raise additional capital did not success. The second and modified proposal to raise a diftional capital did not success. The second and modified proposal to raise a further sam for cauthuring the work and defending the suit, resulted in the acquisition of (say) 882£, by issue of shares on terms equal to 4s, per II. share, or 410½, in shares, leaving a balance of 3090 shares not issued. With the fund thus raised, the directors have paid a proportion of the miners' claims for wages, some of the pressing debts, and made provision for the present expenses of the lawsuit in Colorado, but no means have been found for meeting the very argent overduc claim of their banker in Colorado, which debt bears a high rate of interest. The funds are nearly exhausted, and do not admit of the outlay for labour required to fully develope the property, but a drift is being driven cast on the fifth level with fair expectation of finding good ore. The prospects are good, but the hope is not yet realised. The company a gent has made agreements with the miners to work portions of the property or trinte. The carefully arranged terms secure development of the mine, and save expense of dead work, costing the company is per cent, of ore acquired

will receive fullest consideration as the terms mature.

The CHAMBAN moved that the report and balance-sheet be received and adopted. Referring to the accounts, he stated that the law charges, amounting to 62, were not likely to recur, but the item for interest was the most objectionable, and caused the directors more annoyance than even the lawsuit. In settlement of the banker's claim they had offered to give a mortgage of the property as security, upon the condition that no annoyance should arise or any step be taken for the succeeding six months.—Dr. Shaar seconded the proposition.

The motion was put, and carried manimously.

A vote of thanks to the Chairman, directors, and antitor closed the proceedings.

'For remainder of Meetings see to-day's Journal.]

FOREIGN MINING AND METALLURGY.

Business in copper has remained very quiet at Paris. Chilian in bars has made 82%; ditto in ingots, 88%; tough English, 88%; and pure Corocoro minerals, 84% per ton. At Havre the tendency has been somewhat better. At Marseilles there have been comparatively few transactions, and prices have remained without variation, except for old English copper for sheathing, which has fallen to 52%, per ton. In Germany the transactions of the last fortnight have per ton. In Germany the transactions of the last fortnight have shown that the requirements of consumption are increasing; speculators are accordingly exhibiting a less reserved attitude. There has been another sensible fall in tin quotations at Paris; Banca, delivered at Havre or Paris, has made 104/.; Straits ditto, 100/.; and English, delivered at Havre or Rouen, 104/. per ton. At Marseilles, tin quotations have continued to fall, the arrival of minerals from tin quotations have continued to fall, the arrival of minerals from Australia having been of some importance. The approaching sale in Holland may, however, restore, at any rate, temporary firmness to prices. The Rotterdam tin market has been extremely quiet; Banca has made 574 fls. to 58 fls., as well for disposeable as for future delivery. Consumers have purchased regularly, and have profited from the fall in rates. The German tin markets have been generally weak. Lead quotations have been declining at Paris, transactions having been rather restricted; the general quotation has been 22% per ton, whatever may be the place of delivery. Lead has been quiet at Marseilles. The German lead markets have remained withquiet at Marseilles. The German lead markets have remained with-out change, but the pretensions of holders have become less marked. Zinc has obtained rather better prices at Paris, but Marseilles quota-

Zinc has obtained rather better prices at Paris, but Marseilles quotations have exhibited little change.

The coal season is now definitely regarded as lost in France, even by the coalowners themselves. Intelligent mixtures of secondary and best coal were induced by the late extraordinary advance in prices, and this system appears likely now to continue, to the detriment of superior qualities. In the basin of the Nord the state of affairs remains almost precisely the same, and there is no important fact to notice. Prices are now being fixed somewhat more positively, and there is less margin between the rates asked by coalowners and those agreed to by purchasers. The fall in quotations, although checked for a time, will not improbably be renewed.

A slight revival which had appeared in the Belgian iron trade is maintained, and has even become more decided. At Liége, mer-

A slight revival which had appeared in the Belgian iron trade is maintained, and has even become more decided. At Liége, merchants' iron has been in rather better demand, and it has been announced that one of the principal works proposes to carry its tariff from 8l. 8s. to 8l. 16s. per ton. Pig has, however, experienced no improvement, being weak at 3l. 12s. per ton for retining, and 4l. 16s. per ton for casting. Upon the whole, the hopes of the Belgian iron trade are reviving, and not without reason, as this is the period of the year for large orders for rails as well as evaluate for integer of the year for large orders for rails, as well as orders for girders for building purposes. The large railway companies are also giving out renewal orders for the approaching season. The present is also the usual period of the year at which some improvement in affairs is observable. The imports of iron of all kinds into Belgium presented a slight increase last year, having amounted to 181,000 tons, against 157,000 tons in 1872. The augmentation occurred principally under the head of rough pig and old iron. The exports of iron of all kinds from Belgium presented a sensible diminution, having been 231,000 trom beginn presented a sensitive difficultion, naving been 231,000 tons against 292,000 tons in 1872. The exports of pig fell off last year 22,000 tons; those of rolled iron, 18,000 tons; and those of nails, 4000 tons. The diminution in the exports of rails from Belgium last year occurred almost entirely in the exports to Turkey and the United States; this arose from the increased competition of the Zollverein. A royal decree just issued provides that the working of minerals made to the provides that the working of minerals made the provides that the working of minerals made to the provides that the working of minerals made the provides that the working of minerals made to the provides that the working of minerals made the provides that the working of the provides that the working of the provides that the working of the provides that the working be leased in Belgium by public adjudication for a term not exceeding 40 years.

If several serious indications of reviving industrial activity in France induce hopes of an early return of orders, it must be confessed that at present scarcely any commissions of importance are being received by the French forges and ironworks. Prices have rith talarable firmness Thus in the Hautemerchants' iron has been quoted at 9%. 4s. per ton, while refining pig has made 3%. 4s. to 3%. 8s. per ton. Upon the whole, it can scarcely be said that the French iron markets have experienced scarcely any

The Belgian coal trade has been, upon the whole, neither better nor worse during the past few days, but still there have been, perhaps, fewer complaints of depression. Stocks have been increasing rather slowly in the Belgian basins, because production has been somewhat restricted, while the consumption has not diminished, but has, perhaps, somewhat improved. Deliveries by boats have been almost nil, and those by railway have been reduced, as Deliveries by boats has been indicated by an almost general decline in the receipts of all the railway networks. There cannot be said to be, upon the whole, any general revival in affairs. The attention of coalowners is just at present principally directed to the best means of securing a reduction in miners' wages, which are still 30 or 40 per cent. above the old rates, notwithstanding the great fall which the selling prices of coal laws overwinged. The inverse of coal into Balvium last of coal have experienced. The imports of coal into Belgium last of coal have experienced. The imports of coal into Belgium last year were three times as large as in 1872, the figures for last year having been 659,000 tons, as compared with 211,000 tons in 1872. The Ruhr basin, last year, poured into Belgium more than 300,000 tons in competition with the indigenous coal production of Belgium. The imports of coal into Belgium from France, last year, were

107,000 tons, as compared with 96,000 tons in 1872. The imports from England rose from 92,000 tons in 1872 to 217,000 tons in 1873. The imports from the Zollverein present quite a startling progress, having risen from 20,000 tons in 1872 to 324,000 tons in 1873. The exports of coal from Belgium declined last year having the from 4.602 coal from 1873. having risen from 20,000 tons in 1872 to 324,000 tons in 1873. The exports of coal from Belgium declined last year, having receded from 4,608, 00 tons in 1872 (a year of great prosperity for the Belgian coal trade) to 4,171,000 tons in 1873. The exports of Belgian coal to France fell off 200,000 tons last year; those to the Low Countries declined from 390,000 tons in 1872 to 124,000 tons in 1873; and the Zollverein only took 31,000 tons instead of 63,000 tons. On the other hand, the exports of coke from Belgium increased last year to 802,000 tons, as compared with 749,000 tons in 1872. Some indication of the causes of the present depression in the Belgian coal trade may be found in these figures.

FOREIGN MINES.

FOREIGN MINES.

EBERHARDT AND AURORA.—Telegram: "Commenced hauling the bre on the 19th inst. Will start mill on the 1st prox."

MINERAL HILL.—Mr. Oakes, superintendent, March 2: There is nothing new to report from the mines. The ore raised is, as before, 50 tons of an overage grade of \$49 per ton. The weather has been unusually severe this week, and we have been obliged to bring the ore down from the mines on sleighs, it eling impossible to use the quartz wagon.

COLORADO TERRIBLE LODE.—March 2: The weather is fine, and we are progressing steadily with the building of the jiggers. I have ordered the musher and rolls, and are now preparing the wood foundations ready to receive hem on arrival. Ore delivery, 14 tons of second-class to Stewart's. Yield of ore for the month of \$40 per 10 per 10

we stope to get first-class from here. The vein injwinze sinking below the 5th level is 2 in, wide, of fair quality; winze sunk 17½ ft. The 6th level drift is 132 ft. west of shaft; the main vein is 4 inches wide, of blende and heavy galena ore. I have never seen the mine looking better than at present.

HOLCOMBE VALLEY,—C. R. Bennet, Feb. 21: We have now abundance of water for milling purposes, and are now running steadily right long. We have started running drifts from both sides of the incline No. 2, at a depth of about 55 ft. from the surface, and also stoping out the quartz. The west drift is in about 56 ft. from the surface, and also stoping out the quartz. The west drift is in about 30 ft., and, the ledge at this point having diminished in size, we have started stoping out the quartz, which is of a fine quality and high gaade. We have shad a heavy snowstorm within the last day or two, completely blocking up our waggon-road, so that considerable delay may be caused in the arrival of the pump and set of new shoes and dies for the mortar. From the appearance and accumulation of the annalgam on the plates in the battery, the general belief is that the production of bullion will fully come up to our expectations. Mr. Haley purposes writing you on the first of the months, giving a full description of the progress of operations, with value of rock.

BLUE TENT CONSOLIDATED (Gold).—C. W. Tozer, March 2: I have to report that since the date of my last, wherein I informed you of the completion of repairs and the resumption of washing, all has been moving along at the mine most favourably. We have had another severe snow storm, occasioning some inconvenience, but no delay. On the whole, we are grateful for the storms, so repeated and severe, for each adds to the certainty of a water season protracted unusually late into the fall. We are now actively engaged preparing for washing at South Yuba claim. Anticipating the easy completion of the tunnel is consequently delayed a month longer than we calendated when work was

and ontotess wit, expain, which is the main thing, that washing is going vigorously forward, and we shall be able to give a good account of ourselves in due time. ExcHeQUER (Gold and Silver).—Mr. L. Chalmers, March 2: Not-withstanding that I turned off every stopcock in the mill before winter commenced a good many of the pipes were frozen to bursting in places where no stopcocks had been placed to draw off the water, notwithstanding my particular orders to the engineer to have the pipes so laid that no water would remain to freeze. It was saturday, therefore, before we got to regular running, the engineers being occupied nearly a week in putting in new pipes, which I luckily had beside me. The frost has been very intense, but now no amount of freezing can do us damage. I have turned the exhaust of the engine into the water tank, so we have always hot water in the pipes, and we have cased all the outside pipes with boxes filled with saw-dust. I expect to finish my run this week. I am anxious to get down some 60 tons at the Exchequer Mine, and 30 or 40 at IX. L., while mill running. I let a contract to clear the road by to-day, but the contractors, after getting half way to the I. X. L., threw it up, which I regret, as it would have paid to have it done. I sent the team up as far as they had finished shovelling on Thursday, but further the horses could not go. You will be glad to hear that we are getting softer rock in the shaft. We are now down 149 feet, and entering the esting of the lade. On Jan. I, I stated in my annual that the shaft would cut the lode at the 148. I shall know by next Saturday what it is likely to be at this level. The lode in the north drift is all of 6 ft. wide, and again improving, and will continue to do so now for, at any rate, 89 feet. The pay streak on the hanging wall is 14 foot wide.

I. X. L. (Gold and Silver).—Mr. L. Chalmers. March 5: The lode

4 foot wide.

I. X. L. (Gold and Silver).—Mr. L. Chalmers, March 5: The lode the north drift has very much improved in the 10 feet we drove last week. My reman thinks it will pay for milling, and is saving it. The men from the south ift are timbering the north. The accompanying longitudinal section of the X. L. to be will show you that every foot we drive north on the 200 ft. level brings nearer the rich ore schute they had in the upper tunnel. I have a few tons of a from the old works at the Exchequer Mill, which I shall have milled nextweek. CHICAGO (Silver) B. L. S.

CHICAGO (Silver).—E. J. Dowlen, March: Furnace Diary Reports: CHICAGO (Silver).—E. J. Dowlen, March: Furnace Diary Reports: the mine the work is generally progressing. The Chicago shaft bottom looks ell; a bar of galena has formed in the red sand, and the orey ground exhibits a ndency to widen on all sides; the dip is as vertical as before. A fair body of ore so been developed in the Rambler, and the ground so opened that the car can be ought to its face; we shall get a good quantity of ore out here at very small expected in the ready of ore 1 have yet seen in the mine is found. We hope to commence the best body of ore I have yet seen in the mine is found. We hope to commence oping it down by the 1st prox. It is almost impossible to describe the state of the road in the canyon; the snow is from 3 ft. to 10 ft. deep. The great economical wantage of the wire ropeway is now more than ever apparent; a neighbourful inch has a strong force of men opening out the road at considerable daily expense, on which we are happily saved by our aerial method of transit.

CAPE COPPER.—The directors have advices, per African, from the we are happily saved by our aerial method of transit.
OPPER.—The directors have advices, per African, from the

CAPE COPPER.spectakel Mines:—Returns: Yield for January, Ookiep, 625 tons of 3: ectakel, 34 tons of 29 per cent. Railway returns not received. Trans-railway 1090 tons; 515 tons of ore have been put forward for sale by

Ookiep and Spectakel Mines:—Returns: 1 1201 for January, Contep. 32 at 100 for per cent. Spectakel, 34 tens of 29 per cent. Railway returns not received. Transport of ore to railway 1080 tons; 515 tons of ore have been put forward for sale by public ticketing on April 14.

BENSBERG.—C. Craze, March 21: Victoria Shaft: The part of the lode in the south side of this shaft is producing good lead ore, which we are saving for dressing, and I am pleased to say it is freer from pyrites than the galena found nearer the surface.—New Shaft: The part of the lode being carried in this shaft is worth about 30%, per fathom. We have met with water here, which I am afraid will prevent our sinking much deeper before the Victoria shaft is sunk deep enough to drive east under this ground, to drain it. The lode in the level west of opencast is not so good as last reported; it is now producing 2½ tons of lead per fathom, with a large quantity of pyrites. There is no change in the east level. The north-east stope in open cast continues to yield good galena, mixed with pyrites, and the lode presents a strong and masterly appearance. In all the other stopes there has been a falling off in the quality of the stuff; this is easily understood, as we are gatting too far south of the lode; hence, it is very important that we should sink our shafts and drive levels as fast as possible, in order to lay open ground for Stoping, so as to be able to keep up returns.

MENZENBERG.—R. K. Roskilley, March 21: Dickin's Engine-Shaft: During the week scarcely any change has taken place in the sinking of this shaft below the 30 lachter level, except having met with a branch about 6 in. wide, composed of spar and stones of copper ore, which is issuing an increased quantity of tense this branch is underlaying towards the lode reported upon in my former reports, and it will in depth unite with the same. The shaft is now down about 2 fms. below the 30, and the sinking of the stone proceeded with a strainsfactority.

water; this branch is underlaying towards the lode reported upon in my former reports, and it will in depth unite with the same. The shatt is now down about 2 fms. below the 30, and the sinking of it is being proceeded with satisfactorily.

LUSITANIAN.—March 10: Palhal: The lode has not been taken down in Taylor's engine shaft, below the 170: it is from 10 to 12 ft. wide, composed of quartz, some stones of which are coloured with cobalt. The 170 plat, at Taylor's, is complete, and the sollar in. The 95 winze, below the 160, west of Taylor's, is going down in a lode 3 ft. wide, composed of a softish quartz; a rise is being put up to meet this winze from the 170, the lode in it being similar to that in the winze.—Levels on Basto's Lode: In the 170, west of Taylor's, the lode is 3½ ft wide, composed of quartz. In the 160 west the lode is now yielding 2½ tons per fathom. The lode in the 150 east is 4 ft. wide, composed of quartz and stones of ore. In the 150 west the lode is now being cut off with the slide, and the end is suspended. The mean employed in the 140, east of River shrft, are now engaged

in entting a top plat in the shaft in this level. The lode in the 140, west of Taylor's, west of the slide lode, is 6 to 8 in. wide, giving good stones of ore. In the 130, east of River shaft, the lode is 4 fi. wide, composed of loose quartz. In the 120 east the lode is 1 ft. wide, of schist and flookan. In the 110 east the lode is 1 ft. wide, composed of schist and quartz, and at times stones of copper ore. The lode is small in the 50 east, and without ore to value. In the 80 the lode is 1 ft. wide, composed of quartz and schist. In the 70 the lode is also 115 ft. wide, and composed of good-looking quartz, containing lead, copper ore, and perhaps some cobalt, yielding ½ ton of mineral per fathom. In the 20 cast the lode is 1½ foot wide, made up of quartz, stained with cobalt. The lode in the 70 west of Taylor's, and west of the slide lode, is 6 in. wide, of dry schist. The branch in the 38, west of Perez' shaft, is worth fully ½ ton of ore per fathom. The slide lode in the 130, north-east of Taylor's, is 1½ foot wide, of schistose and flookan. There is no change to report in the adit cross-cut.—Carvalhal: The great lode in the 50, east of indine shaft, is vorth ½ ton of good lead per fathom. The value lode, in the top adit south, east of River Caima, is 1 ft. wide, composed of quartz and country, with spots of lead. The stope below the 40, on the great lode, yields ½ ton per fathom.

Ala MILLOS.—March 11: In the 60, west of San Rafael's shoft at

top adia south, east of River Caima, is 1ft. wide, composed of quartz and country, with nots of lead. The stope below the 40, on the great lode, yields ½ ton per fathom.

ALAMILLOS.—March 11: In the 60, west of San Rafael's shaft, the lode continues large, and yields good stones of ore. The 50, west of San Francisco shaft, yields ½ ton per fathom: this is a large and promising lode, with good stones of not.

ALAMILLOS.—March 11: In the 60, west of San Rafael's shaft, the men are put to drive a cross-cut north. The lode is the 42 Magdelaens shaft, the men are put to drive a cross-cut north. The lode is the 42 Magdelaens shaft, it men are put to drive a cross-cut north. The lode is the 42 Magdelaens shaft, it men are put to drive a cross-cut pields 47 or of ore per fathom; the lode in the 50, west of San Victor shaft, continues small and unproductive. The lode in the 50, west of San Victor shaft, contains stones of ore in the bottom of the end. The lode in the 50, west of San Victor shaft, contains stones of ore in the bottom of the end. The lode in the 50, west of San Victor shaft, contains stones of ore in the bottom of the end. The lode in the 50, west of San Victor shaft, contains stones of ore in the bottom of the end. The lode in the 50 or of the driving. The 50, east of Judd'e engine-shaft, is worth 1 ton per fathom the 40, ents of air shaft. The 30, east of Judd'e engine-shaft, is worth 1 ton per fathom; the lode is very wide, and spotted throughout with lead. The 50, east of Crosby's cross-cut, is compact and regular, yielding ½ ton of ore per fathom. In the 30, east of Swaffled shaft, commuse unproductive. The iode in the 50, west of Crosby's cross-cut, is compact and regular, yielding ½ ton does not have the 10 of the ALAMILLOS.—March 11: In the 60, west of San Rafael's shaft, the

partment yielded very well in the past month, and the stopes have not undergons any change worthy of notice. The works at surface are going on very regularly, and the machinery in both mines is in good working order. We estimate the raisings for March at 350 tons.

LINARES.—March 11: The lode in the 85, driving west of Crosby's shaft, is not so large and open as it was. The 85 cross-cut, south of Crosby's shaft, has intersected the south lode, which has a promising appearance, and contains good stones of ore. The lode in the 75, west of Crosby's, has fallen off in value. The 75, west of San Francisco shaft, is worth 1½ ton per fathom: the lode is compact and regular, but small. The 75, east of 8an Francisco, yields ¾ ton per fm: the lode is improving a little. The 65, west of this shaft, yields ½ ton per fm: the lode. The lode in the 55, west of 8an Francisco, is very compact and regular, producing ½ ton per fathom. The 55, east of 8an Francisco, is very compact and regular, producing ½ ton per fathom. The 55, east of San Francisco, is worth 1 ton per fm: this is opening good tribute ground.—Shafts and Winzes: At Warne's tegine shaft, sinking below the 85, the men made moderate progress in the past month. No. 187 winze, below the 55, yields ½ ton per fathom: this is going down in a good shoot of ore. The returns were kept up very well in the past month, and the stopes are yielding moderately at present. The ordinary surface works are going on very regularly, and the machinery is in good condition. We estimate the raisings for March at 125 tons.—Los Quinientos Mine: In the 80, west of Taylor's shaft, the ground is hard, and the lode small and poor. The 85, west of Cox's shaft, the lode is small and unproductive branches. In the 55, west of Cox's shaft, is split into small and unproductive branches. In the 45, west of Cox's shaft, is split into small and unproductive branches. In the 45, set of Cox's shaft, is produced is hard, and the lode poor. The lode in the 55, east of San Carlos shaft, but in head, and the

EMMA.—"BEARING" EMMA STOCK.—The letter of our London correspondent, which appears in this issue of the *Heroid*, with the circular embodied in it, gives the Utah public a little more of the latest chapter on Emma manipulation. The London *Mining Journal*, of February 14*, publishes the same scircular*, with a number of letters not very complimentary to the directors of the Emma Company, and editorially comments upon it. The gentleman who called at the Emma office in London, as we learn by correspondence, was Mr. William Ward, who owns a large number of shares of the stock; yet, instead of being shown the cablegram which was to affect his fortune, perhaps \$50,000 in a day, he was insolently refused, and actually ordered to leave the office. Mr. Anderson, who had returned from New York, had met Mr. Attwood in that city some time before, yet the result of their conference on Emma affairs and its bearings upon the company's shares has been studiously kept from the shareholders. It was given out in this city that Mr. Attwood had resigned; but he returned from New Yorks and since then, as before, everything is kept as profound a mystery as possible concerning the mine. Why was there a necessity for Mr. Anderson and Mr. Attwood to meet in New York? Why did not Mr. Anderson come to Utah, as in October, 1872, and make a personal examination of the property, as he then did? Or if such a course was not necessary and he was limited for time, why was Mr. Attwood not able to communicate and receive all the necessary information by mail?

This is a matter in which not merely the shareholders 'ut the public are interested. The London circular says Mr. Attwood my telegram, we ask him why has he gone to the heavy expense of ordering another pump with double the capacity of the one set to work some time ago? We have the intelligence that he has done to the heavy expense of ordering another pump wild double the capacity of the one set to work some time ago? We have the intelligence that he has done to make a public desire and dema

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THE EMMA.—A private letter from Salt Lake, dated Feb. 10, informs us that sales of Emma ore to date, from the new strike in the deepest workings, are as follows: —25 tons, \$29,000: 100 tons, 230 ozs. per ton, \$38,000: 100 tons of third-class ore, 230 ozs. per ton, \$25,000: 100 tons of fourth-class, 132 ozs. per ton, \$15,000. Total value of the 325 tons, \$107,000. Good for Emma.—Missip and Scientific Press, San Francisco, Feb. 21.

LONDON GENERAL OMNIBUS COMPANY.—Traffic receipts for the cock ending March 22, 97684, 18s. 5d.

WELTAUSSTELLUNG 1873 WI



ROCK DRILL

ON

TWO GRAND

MEDALS for PROGRESS

VIENNA EXHIBITION

AWARDED TO



ROCK DRILLING AND AIR COMPRESSING



Two Silver Medals, Highland and Agricultural Society of Scotland, 1873. Three Silver Medals, Manchester and

Liverpool Agricultural Society, 1873.

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Adapted for Mining, Quarrying, Tunnelling, Shaft-Sinking, &c.

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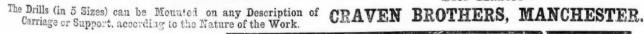
Sole Agents-

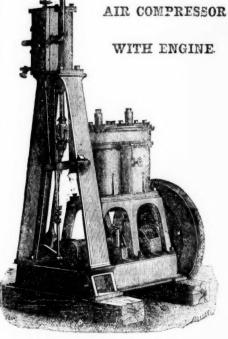
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Adapted for Driving Rock Drills, Coal. Cutting, Pumping, and Underground Machinery, or where the Motive Power has

Extract from Paper read before the British Association at Bradford, 1873, on Brain's System of Mining and Shafting Sinking at the Drybrook Iron Mines, Forest of Dean, using the "Burleigh" Rock Drilling and Air Compressing Machinery:

(Shaft 10 ft. Diameter.)

COST OF SHAFT BY HAND

TUNNELLING

CARRIAGE.

During a Fortnight.

Sinkers, twelve,	12 d	lay	S	eac	h,	at	5	3.	6d.				£39	12	0
Water Fillers, th	ree,	12	d	ays	e	acl	1, 2	at	3s.	60	d.		6	6	0
Blasting powder													1	2	0
													£47	0	0

COST OF SHAFT BY MACHINE

During a Fortnight.

Sinkers, three, 12 days each, at 5s. 9d	£10	7	0	
Labourers, six, 12 days each, at 3s. 6d	12	12	0	
Engine Stokers, two, 12 days each, at 2s. 6d	3	0	0	
Dynamite, 60 lbs., at 2s.	6	0	0	
Electric Fuses (Brain's) 20 per day, at say 6d. each	6	0	0	
Coal for Air Compressing Engine, 12 tons small,				
at 10s	6	0	0	
Oil for engines	0	5	0	
	_			

Depth Sunk 3 yards—Cost per yard . . £15 13s. 4d | Depth Sunk 5 yards—Cost per yard

£8 16s. 9d.

JOHN MAIN.

THE ABOVE STATEMENT REPRESENTS WHAT IS NOW BEING DONE AT THE ABOVE MINE.

ADDITIONAL TESTIMONY.

Messrs. T. Brown & Co., 96, Newgate Street, London, E.C.

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The Weardale Iron and Coal Company, via Darlington, Sept. 6th, 1873.

Total

DEAR SIRS,-I have much pleasure in informing you that the Rock Drill and High-pressure Boiler, with which you supplied us, are both working I am, yours truly,

(For the Weardale Iron and Coal Company, Limited),
J. R. CRONE.

(COPY.) Crossfield Iron Ore Works, Crossfield Moor Row, via Carnforth, Sept. 8th, 1873.

DEAR SIRS,—In reply to yours of 2nd inst., I am sorry I have not time to go into the comparative results of hand labour in sinking with that of the work done "Burleigh Drill." All I can say is, that for the last few months it has been giving me every satisfaction, and there is a marked difference in the progress of our I am, yours truly,



Diameter of Steam Cylinder . Diameter of Water Cylinder . Length of Stroke

Gallons per hour, approximate.
Height in feet to which water can be raised
with 30 lbs. pressure per square inch of
steam, or compressed air, at pump

ditto

THE HIGHEST PRIZE

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STEAM PUMPING ENGINES,

FOR MINING AND GENERAL PURPOSES, WAS

AWARDED BY THE INTERNATIONAL JURY, AT VIENNA, 1873,



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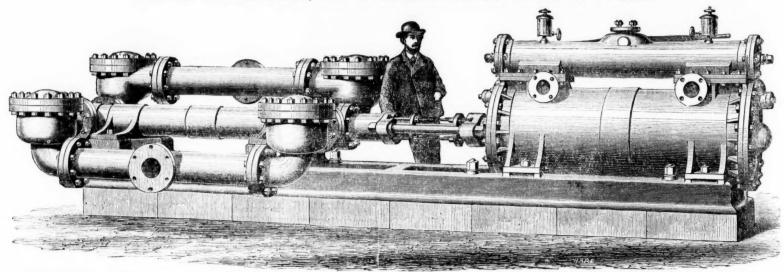
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TANGYE BROTHERS AND HOLMAN, LONDON,

"THE SPECIAL" DIRECT-ACTING STEAM PUMPS.

OVER 3000 IN USE, AGGREGATING 25,000 HORSE-POWER. 200 SIZES AND COMBINATIONS OF THESE PUMPS ARE NOW MADE.
ALL ARE DOUBLE-ACTING, AND HAVE SHORT PISTONS AND LONG STROKES.



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Pumps supplied. The "Special" Steam Pumping Engines are in use at the following among many other Collieries:-Pumps supplied. Pumps supplied. Pumps supplied. Pumps Newton Cap Acomb Caprington..... Wardley..... Castle Eden Chell Haswell ... Inkerman Adelaide..... Ashington Bell Brothers Kilton Iron Company..... Silverdale Cornsay Darfield Main Lambton Lintz Llancarach South Brenwell
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Strafford North Seaton..... Waterloo West Bitchburn
West Thornley
West Yorkshire Denend Dinnington Old Flockton Oakenshaw Brancepeth
Brandon
Briggs, H., Son and Co.
Brinkeburn
Brownrigg Stanting
Stanting
Statton Heath
Thornley
Tindale Llynvi......LochoreLonghurst Donisthorpe Old Thornley..... Pease's West Pegswood Longhurst
Lumley Thicks
Marley Hill
Milkwell Burn Tindale
Trimdon Grange
Tudhoe
Tudhoe Grange...
Victoria Duffryn Pelton..... Whitworth Eckington Etherley Pontyclere Queensferry Railey Fell New Brancepeth New Copley Railey Fell Seaton Delaval Worcester Victoria Vobster and Mells PARTICULARS OF THE "SPECIAL" STEAM PUMPING ENGINES SUITABLE FOR HIGH LIFTS IN MINES. $\begin{array}{c}14\\6\\36\end{array}$ $^{12}_{\ 6}_{24}$ Diameter of Steam CylinderInches 16 12 12 Diameter of Water Cylinder Length of Stroke 36 8,800 24 24 24 36 24 8,800 Gallons per hour, approximate..... 2,200 2,200 2,200 3,900 3,900 3,900 3,900 3,900 6,100 6,100 6,100 6,100 2,200 2,200 3,900 Height in feet to which water can be raised with 30 lbs. pressure per square inch of steam, or compressed air, at pump 320 247 180 259 352 461 581 793 124 180 244319 500 720137 180 281 405551 720 115 180 $\frac{330}{412}$ at 40 lbs 240 153 2404701,058 325 960 183 240 960 425 665 $\frac{375}{468}$ 540 Ditto ditto 532 1.322 at 50 lbs. 406 531 1.200 918 1,200 191 300 431 300 PARTICULARS, $\frac{16}{9}$ 24 $\frac{12}{7}$ $\frac{24}{24}$ 16 8 24 18 6 36 $\frac{14}{8}$ Diameter of Steam CylinderInches Diameter of Water Cylinder Length of StrokeInches Height in feet to which water can be raised 180 142 405 475630 720 555720855 180 234 300 405 with 30 lbs. pressure per square inch of steam, or compressed air, at pump at 40 lbs. at 50 lbs. 960 1,140 1,200 1,425 240 300 413 540 840 180 240 400 PARTICULARS, &c .- Continued.

PRICES OF ABOVE ON APPLICATION.

ANY COMBINATION CAN BE MADE BETWEEN THE STEAM AND WATER CYLINDERS, TO SUIT HEIGHT OF LIFT AND PRESSURE OF STEAM.

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10

258

345

431

10

146

195

10

198

264

330

19,800 19,800 19,800 19,800 24,400 24,400 24,400 24,400 24,400 24,400

10

303

405

10

405

540

 $\frac{26}{9}$

500

500

665

508

 $758 \\ 947$

.Inches

19,800

244

320

 $\frac{21}{12}$

35,240 35,240 35,240

137

183

 $\frac{18}{12}$

101

 $\frac{32}{10}$

468

781

 $\frac{24}{12}$

180

 $\frac{26}{12}$

35,240

211

 $\frac{30}{12}$

281

 $\frac{32}{12}$

320



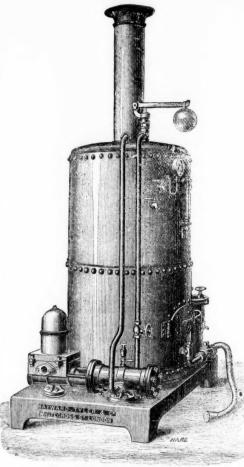
HAYWARD TYLER & CO.,



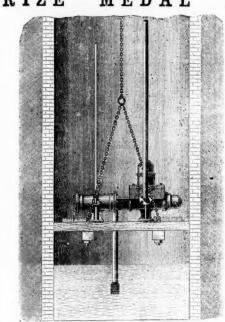
ERSAL" BOILER FEEDER.

ENGINEERS,
WERE AWARDED FOR THESE PUMPS FOR DEEP MINING AND OTHER PURPOSES,

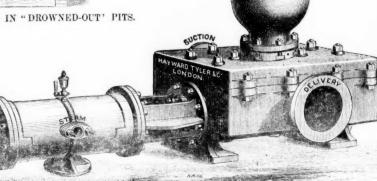
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upportant to buyers of this Steam Pump is a specimen of one se steam valves, shown after working for more than two years, without any wear, without even a scratch, and the marks of the can be seen."—Engineer, Dec. 13, 1872.



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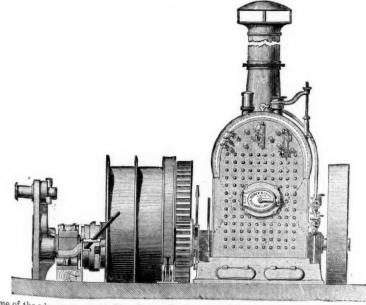
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sa follows:—
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GREAT SAVING IN FUEL.

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240 300

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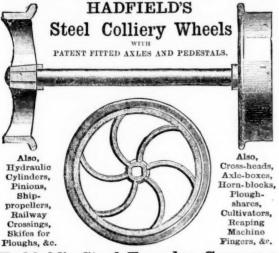
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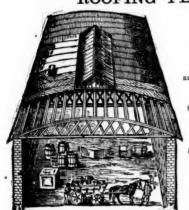
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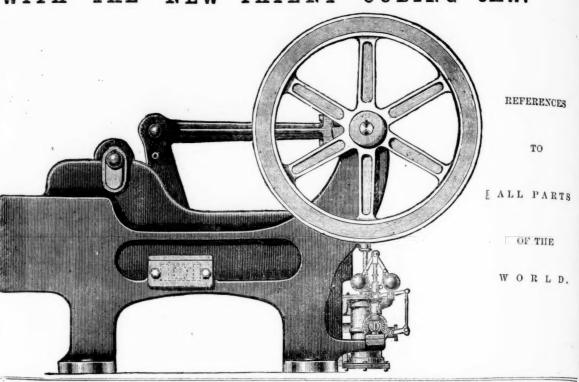
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